

<110> Young et al.

<120> 207 Human Secreted Proteins

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<141> 1998-12-04

<150> PCT/US98/11422  
<151> 1998-06-04

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tctcccgga  tctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg      180
  
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gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
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 ggggactttc cc 12

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 ccattctcaat tag 73

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 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
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|-------------|------------|------------|------------|------------|------------|------|
| ttgrggrrctt | gagaatgggt | cagggactcc | aggccaagtc | caacagagac | cccaaacc   | 180  |
| ccacacacca  | gcagccacaa | cctcaccacc | aacaaagagg | acttttgtgg | ggccacaagt | 240  |
| aagaggcat   | ttctggaatg | gactcagacc | tttaaacagg | agagttgagc | acttccagks | 300  |
| agtttttaag  | caaggcatgg | ggaacaggga | atagaacctt | tcaaagaggt | tgcccagaga | 360  |
| aaagctgggc  | ctcttgcat  | cggcttccct | ggagcagcct | cttctggcag | aaagccatca | 420  |
| ggtgctcaat  | catcttctcc | tggccaaggc | tctgaccatg | cttagtactg | gaatagaggt | 480  |
| ggccaggccc  | ccagcgactc | ttcttggcct | gatgtttgtc | ctcacaggca | tgccacgtgg | 540  |
| cctgagatga  | ttcagaacaa | atcatgctaa | ctttgaatcc | atccagccac | ttgcaaatga | 600  |
| taatcagaag  | tcagottggt | cactgttaga | aagaaactaa | caaaagagaa | cccagagcaa | 660  |
| tctagaatct  | ttgagtgcct | ggctttccaa | ggatactgcg | gagactctgg | ccaagctgat | 720  |
| gamctttctga | artgtcactg | gcaccataty | caacaagaac | caccattcac | tgagtagcta | 780  |
| atgggtttgg  | ggcctgggac | attccatctg | aggctcctcc | tgaacatgtc | actccacagc | 840  |
| agaggaccgg  | ttgcagctta | cccagaacca | ctcctccagg | agagctggat | gttttgcgtg | 900  |
| caacaccttg  | agcactgact | gctattgttc | aaaaaaagcc | tttgcctgat | tcggaggact | 960  |
| gccccgtgcc  | ctgaggtgac | ttcctaacta | tgtgggttca | ttagcgaatt | tattttttgt | 1020 |
| gctgggtgga  | catttgtatt | ttgttaggtt | gctgtttaag | ctcaagtttg | ctgtgctctc | 1080 |
| tgagctaca   | aaacatcttg | gcatatttaa | gaktggcttt | tataaatagc | tttattctga | 1140 |
| tattaatcag  | attcccaact | ttactgagaa | ttaaggactg | gggtacttta | aagaaatgca | 1200 |
| aatagcaatt  | gaagaaccac | tgctgcaggt | ggtagccctg | gctagactga | attacactag | 1260 |
| aaatcagcca  | gaaggaagcg | tccttgggat | cccagatcac | tccttttttt | ttttttttta | 1320 |
| aaaggggcag  | ccccttgatg | gctcatctct | ctgaataaca | gttacgtctt | catatcgata | 1380 |
| ccagatgctt  | tcttcatcat | gccactgaag | ccactcacca | ccttcaagaa | catgccaacc | 1440 |
| tctgtcagat  | tcacttaccc | acaaacaagg | aggcacggtt | ggcacaaaag | gttgtctctc | 1500 |
| aggtccaagt  | ggactctaca | gagtgcctga | cctcaacaca | ctggattcca | ggtggactgg | 1560 |
| accaagagca  | ggcaaagaca | cgggaactga | aaaactccac | agggtttgga | gaatagaaat | 1620 |
| gaaaagccac  | gtcatataac | tcaagaataa | atgggtgttt | ggaaatttta | aaattatcat | 1680 |
| cgaagggtgg  | gaaactattt | caggcccaaa | tgaaaggaaa | tcgccagttg | gggatgaaat | 1740 |
| cacagagcct  | gtgttttatg | atatggttgg | atgtccactg | atgaaatttt | aaaggagttt | 1800 |
| cattttttaa  | agtgcgcagt | attctacata | tgagaattct | ttaggccaag | aaactgtcct | 1860 |
| tggctcagag  | gtgttgggaa | ttaaagcaga | gagaagccat | tcgtgatgct | tagaaccaag | 1920 |
| gatggtoatg  | tacacaaaag | ccatcgagac | ggccattctt | gtttacaaaa | cacttaccaa | 1980 |
| gaaagcactt  | tgtaggggaa | ctttagtaag | ttcttctcat | ttcattatgt | ttcttccaag | 2040 |
| gaaacaggag  | agactgaatt | aataattctc | tctttctctc | taagcacttt | taaaataata | 2100 |
| aagtacatct  | tgaaattttg | gggggcactc | ctgattttaa | aaaagaaaaa | ggctgcttga | 2160 |
| tgtatgttat  | gcagagacac | tctgcctctg | gtggctgcag | agcaataccc | aagcctcatt | 2220 |
| tgggaaggctc | aacattttga | attgcacttt | aattgattaa | tcctcaattc | atgtggcctt | 2280 |
| acgggatggg  | gggtctggga | ccccaatcca | ttcttatctg | ccaaagaatt | atctagaagc | 2340 |
| acatcaaata  | ccagcacccc | acctgcacaa | tgggggtgga | aaacttttgt | atccctaagc | 2400 |
| atattatatt  | atagtgtctg | ccatgccatg | tggaaatact | ttatttttaa | cctcaggatt | 2460 |
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| actgaagatg | agagaacatg | atatgtgtta | agtgccttcc | acaataccca | gaacatagca | 120 |
| aacatgtaat | gaatgtagta | atagtaatta | ttttattttc | ttttgattca | gttgggacta | 180 |
| tgttcagctg | taacagaata | cccaaaataa | ctgtttttaa | caaattaaag | tttwgttgtg | 240 |

|             |            |             |             |            |            |      |
|-------------|------------|-------------|-------------|------------|------------|------|
| aagttttggtt | acgaattcag | acaateccagg | gctttttatag | atgcaccagg | atcagcaggt | 300  |
| acaaaggcat  | ctttcctgat | ttctgccagt  | ctcaatgcat  | gggttgcaat | ccagartcca | 360  |
| rgatggcagt  | tccagccctg | gttacgccc   | tatttagcaca | cagaaagaaa | gagaaagggg | 420  |
| tgtgcctctt  | cactttaatc | atagctccca  | ctagatgcac  | ccactacttc | tgctgatact | 480  |
| ccattagcta  | atgcttgctt | acatgggtcac | acttagtttc  | cagagagaca | tgtctggaca | 540  |
| gtcatgtgct  | caattaatat | ccaagtgtcc  | aattactgag  | aaaaaaagaa | actagcacct | 600  |
| ttgcttggtt  | gcattccctt | tagcataagc  | cacattcttt  | ttatgaagtt | gtcctcagtt | 660  |
| acttggatgc  | ctcagttgtc | ctttcawtta  | gaaawgcycc  | tkggacaycc | tgaawctgac | 720  |
| ttcttttgct  | atcagcacca | tcactaccac  | tgccytcttc  | aaagccacca | cgttctgtcc | 780  |
| ccaggatggg  | tgcaacaacc | accataggga  | ctttttgcoct | tctacttcca | cacaatagnc | 840  |
| cagagtaagc  | ttttgaaaat | gtagggtcaga | tcatgtctct  | ctcttctctt | tcaaaacct  | 900  |
| cccgatggct  | tttcatatta | ctcaaaaagaa | aacctaaaaac | tttgctgtga | gatctatgtg | 960  |
| acccggctta  | ttcttctctt | tactttatct  | ctgtattgct  | cttctcact  | ctactccagc | 1020 |
| catcccaact  | ccttgctgct | tgtctatac   | tcctaaaaga  | agttcagtt  | tcccttatga | 1080 |
| tatttgcact  | taaaatagaa | aaaaaaaaaa  | aaaaaaaact  | cgaggggggg | c          | 1131 |

&lt;210&gt; 13

&lt;211&gt; 941

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

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| gatgtcctca  | gccaagattg  | traggcagag | aggagctgtc  | ccaacctact | ataccaccga  | 120 |
| ggctggagag  | atcatatttt  | tggtattaaa | ctggagtctc  | tccatccttc | acattgttga  | 180 |
| tgctctctgt  | agcaaaccgg  | aaaagtcagt | gacagaagat  | gccgctagcg | gtttgagcca  | 240 |
| gagaatgaca  | gctctggttt  | ggagaaaagg | gccggatggg  | ggctctagaa | agcccactct  | 300 |
| tctgctcttc  | ttttttctcc  | cccttatatt | gtgctttcat  | tcattcattc | attcatcaaa  | 360 |
| catttggttga | gcacctatta  | tgtgtcaagc | tctgtgctag  | cctctggaaa | acctgccctc  | 420 |
| atgtagctca  | ctgtggagta  | ggagaaacaa | tgactacact  | atgataagca | cgggttggtca | 480 |
| gggtctcaca  | gagcagtggc  | ccctcatcca | gaccgatgag  | gtcaaagaag | gcattccaggc | 540 |
| gaggatgggt  | tcagagctaa  | ctgaagaatg | agagggagct  | gcaccascag | gggttggaac  | 600 |
| tgaagtggtg  | agtgcctgga  | gtcttgattc | cagcagaggg  | agagcagttc | gtgaaaaggc  | 660 |
| accaaggggtg | ggagagggca  | gagcacatgg | aggaacttca  | ggtagttctg | gatggcctg   | 720 |
| gggcaaagct  | agagaggtaa  | gaagaatcta | caaagtgttc  | tcgagttaca | tgaacttcca  | 780 |
| tccaataaaa  | cccattggaa  | acgaaaaatt | taagtcagaa  | gtgcatttaa | ggctgggtccg | 840 |
| agtagaatga  | ttttttacaac | gaattgatca | caaccagtta  | cagatgtctt | tgttccttct  | 900 |
| ccactccac   | tgtttcacct  | gactagcctt | taaaaaaaaaa | a          |             | 941 |

&lt;210&gt; 14

&lt;211&gt; 843

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

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 <223> n equals a,t,g, or c

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 <222> (89)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (525)  
 <223> n equals a,t,g, or c

<400> 14

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| ggaagtcccc | ccccgcggtg  | gcggccngnt | ctaggaacta | gtggaatccc | ccggggctgc | 120 |
| agggaattcg | gcacggagtg  | ggaatgttgt | ttgtatgata | ctatttcac  | aawatgcatt | 180 |
| gagacttggt | ktgtggccta  | ggacatggtc | aattcttctt | aaatatccg  | tgaatttctt | 240 |
| tagtgcata  | tctccgatgg  | gggctgtggg | gacagagttc | taaatatgcc | cattagatta | 300 |
| aatctcttca | ttctgttgct  | cacatcttct | atctcttct  | taatctgtca | atctcttcaa | 360 |
| gagaggtgtt | attaaaatct  | ctcactgtat | gtgtcacttt | gcccttaaaa | ttctgatgat | 420 |
| ttgtcttata | aatgggtata  | accattttcc | aggaagaaca | ttaaagaact | ttccattggc | 480 |
| attatccagt | ttccctcaaa  | atactgggtt | tttttatttt | ggctnctaag | cagctatgaa | 540 |
| tccagtttct | cagaagccct  | tgtctcaagg | catttggttc | cagattacct | tgttagcatc | 600 |
| cacactatgg | gctatttttag | aaaaacaaaa | aaagtatcaa | aatcatatag | ctatgatttt | 660 |
| cctgtgcttg | aaggagcctt  | aaagctcctc | tagtccagcc | agtatttggt | catccaaatt | 720 |
| ctgccaaaga | atctctattg  | tcaagatatt | ctttaccatc | tttgggacat | tctcattatt | 780 |
| agaaacaaat | cctaagaaga  | aattctgcca | takacaaccc | atccgttctt | taaaaaaaaa | 840 |
| aaa        |             |            |            |            |            | 843 |

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 <212> DNA  
 <213> Homo sapiens

<400> 15

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| gaagggtaca | tatacagagt | gcttcaggaa | tgatcatttt | gttattatct | atgcttctta | 120  |
| acaatgttgt | tttagtccaa | gaagataatt | gccagagaaa | gaatacagtg | caggaaagaa | 180  |
| gargctggag | ccagtggtga | agarggattg | agargacaga | cattgtggga | atgaaatcat | 240  |
| gaataatcgt | gtttttgaat | tgtccaaaaa | cttctacaaa | ccatgaaatg | ttggagttaa | 300  |
| aatctaattg | ttgaaaaatt | ccccacattc | cttgtatccc | ttaggttgag | cataattcca | 360  |
| catccgtgga | ctgatgcact | tcccagagg  | gggcctcatt | aactcttccg | aggcagcagc | 420  |
| agcaagggca | ccccctcctt | tccccccaca | cccayttct  | catggctctt | cttctctcca | 480  |
| tctcatgctt | aggttagaaa | agggcacaa  | gtaagggaag | ccttgggaat | aggctgaatc | 540  |
| tggtatctta | atttggtgcc | aaatacttaa | tgtgcttgaa | tttaaaaaa  | gcaaacatgt | 600  |
| agaaaggtaa | trataattat | gaggccagtt | ctttaagcta | gctttttttc | ccctctcaaa | 660  |
| cagcatattg | gcttggatgt | cagcaggaga | aagtgttttt | tgcaatacac | ataatgcata | 720  |
| tatggtcctg | ttagcaatct | atagaaaata | gatattgctc | attaaggtaa | atatttttgt | 780  |
| tgatgaatga | tctggaatgg | tctggacttg | ttgtgtgaac | aggaaattgc | tctgtaggct | 840  |
| ttgacttggt | aggtaaagag | tgaggctggt | aagattaatt | aaagtaaata | ctgtgacaat | 900  |
| aggatgtcaa | aaccaaaaac | gtgtttctga | aactcaagga | attaatgaca | catagggaag | 960  |
| tttttgccat | attaagcata | gagtaggaga | ggcaagtcaa | gaataaaaaa | aaaaaaaa   | 1018 |

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<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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 tttaagaaat tagtgaatcc ccgngtgcag ggaattcggc acgaggagga ggccgtcagc 60  
 tggcaggagc gcaggatggc agctgytccc ccgggttgca cccccccagy tctgctggac 120  
 ataagyttgt taacagagag cctgggagct gggcagcctg tacctgtgga gtgccggcac 180  
 cgcttgagag tggctgggcc aaggaagggg cctctgagcc cagcatggat gcctgcctat 240  
 gcctgccagc gccctacgcc cctcacacac cacaacactg gcctmtccga gctgctggag 300  
 catggagtgt gtgaggaggt ggagagagtt cggcgctcag agaggtagca gaccatgaag 360  
 gtgcgccagg cagggctcgg acctacccca ggaatgtcct gccctgggaa tgacaacaca 420  
 gtccacacca tgcacgggga ggcaaacagg ggcagctgac ccagcccagg ggtaganga 480  
 ggtcttgccg aggaagtggc agctaagctg atacctgata tgcacwagkc agccargygg 540  
 agacaggcaa ggaagaagct tgttttgagg acagaatttt ctagatcact cagcaccatc 600  
 tggcttttgg ggctttttgt tttattttgt ttttgagacg ggggtctcgt ctgtcgccca 660  
 n 661

<210> 17  
<211> 553  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (507)  
<223> n equals a,t,g, or c

<400> 17  
 ggcacagggc tatttgcccc tetctccaca tgacagaact gctctaagtt tctttgctgc 60  
 tcttctcagc tgtcagacgg ctgtgtgctt gtttccaca ccaccatgtc tattctttgc 120  
 tgtccttwac tctgctgttt ttttctcttt tgtatttctt ctggctcttg tcccttttcc 180  
 cactgtctwc agctttctct tattgccact ttcagtcaga gcagtctctg gcttctgggtg 240  
 ccggcataca atacttactt gagtttcttg gcttttcttg actgtgcata tcttacttca 300  
 acataggaat agcctgtcat agaatttctc cagttccagg gctcaagagg gagagtgccca 360  
 gaaaattgag actgttttcc ctgtcttgga ttgaattcat aaagcaaac cagtgtttgt 420  
 gtgagggttt gctgtgtcat gcttataggt tgtttggttg caaacctata gaatccagcc 480  
 tgcgaaaaga aagraaccag agaatanacg catcagaaca atgcttgaca tcatttctca 540  
 atcaagcagt cca 553

<210> 18  
<211> 869

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (635)  
<223> n equals a,t,g, or c

<400> 18  
ggcagcagct gccaacactg aggtcttcgt ggcttctcac atctagatgt atccctctca 60  
aatctatcct ctatccaggc accagattga ggtatctaaa atgtcaactt tccagttact 120  
ccttcttata ctagcccaat caacttacia gataaagtcc aagccccttc atatgacaaa 180  
ccacaccctg cttaactctc cagggttgaa tcttctcatc cctactttaa actttaaaac 240  
ccagcagcac gaaagtgtct cctatgcatt ttgccatatg cgttctctcc atcatgcatt 300  
tgcttgagca agatgtcttg agttaacatc ttattcttta agactcattg tggtaggtaga 360  
cagcctttaa taacggatcc ttggccaggc acagtgactc acacctgtaa tccagaact 420  
ttgaaaggcc aaagaaggaa gaaagcttga ggccagtagt ttgagaccag cctgggaaac 480  
agagagatat cccatctgta ccaaaaaatt aaaaaaatat tagcagggag tagtggcatg 540  
cacaagtggc cccagctcca tgggagastg aggttagaac atcacttgag cccaggaagt 600  
caaggctgca gtgaaccatg atcagaacat tgcantccag cttgggtaac agagttagac 660  
cttaggtcag aaaaatgaat aaataagcat aaaattttta aaacttagcc aggcattggtg 720  
gcacacatct gtggtccctg ctacttagga ggctgagggt agaggatcct tgagccagg 780  
aggtcaacac tacagtgagc tatgattgtg ccactaaact ccaacctggg tgaaaaagca 840  
aaaaccctgcc aaaaaaaaaa aaaaaaact 869

<210> 19  
<211> 959  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (930)  
<223> n equals a,t,g, or c

<400> 19  
ggcgagccga gatcgtgccg ttgcactcca gcctgggcaa caagagtga actctgtctc 60  
aaaaaaaaaa aattataata ctatatgccg taaaatgaca ttcatatatt aaagagtttt 120  
ttaaactct tgtattcaca tggcataatt tgaaacccta ttctactgaa tgagaatggt 180  
atctgttgto ctcatTTTTT catTTTTtato cttaacaatt tccaccacag ccagtgcata 240  
taatggcaat gacacccagg gatggaatga taagttccat cccmgtcag tcaagacgca 300  
gacttgatgt ggcccccaaca acagtcaata atggagtctc caaaataaag ctctatagga 360  
aaggtaaata cccgctgcac aagaaaccac agcatctagg ttctaaccoc atctctatga 420  
agagcttgct gggagagttt tgacattwaa caatctgtct gatkgccaat ttttctctc 480  
tataaaatga taatgttkga ytcaaagato caaagtcaat tcatggtcta aaacttaatg 540  
atttttttag gttttgkgac atttcaactgt acactgtagt aatttatatc ttattttccc 600  
actaatttag aaaaatatyt aaatgatcct taattggcaa tgggtcctaa gaattttggt 660  
ttaaatccct gttacccaaa agagcccttt tttgtatctc gcagtagtta caaggatctt 720  
tctaaatctt aaaaaaaaaa aaaaaagaaa gaaagaaaag aaaagaaaaa agtcagccg 780  
ggcgtgggtg ctcatgctg taatcccagc actttgggac caagggtggac agatcacgag 840  
gtcaggagat ggagaccatc ccggccaaca tggagaaacc ctgtctctac taaaaaaaaa 900  
aaaaactcga ggggggcccg gtacccaatn cgccggctag tggctcgtaa acaatcaaa 959

<210> 20  
<211> 1446  
<212> DNA

<213> Homo sapiens

<400> 20

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| cgggggcagg  | ctgtgtggca | ccgccaggga | gcggggccac | ctgagtcact | ttattgggtt  | 60   |
| cagtcacac   | tttcttgctc | cctgttttct | cttctgtggg | atgatctcag | atgcaggggc  | 120  |
| tggttttggg  | gttttcctgc | ttgtgccaag | ggctggacac | tgctgggggg | ctggaaagcc  | 180  |
| cctcccttcc  | tgtccttctg | tgccctccat | ccctcatgg  | gtgctgccat | ccttcctgga  | 240  |
| gagagggagg  | tgaaagctgg | tgtgagccca | gtgggttccc | gcccactcac | ccaggagctg  | 300  |
| gctggggccag | gaccgggaga | gggagcactg | ctgcctcct  | ggccctgctc | cttccgcagt  | 360  |
| taggggtgga  | ccgagcctcg | ctttccccc  | tgttctggag | ggaaggggaa | ggaggggggc  | 420  |
| ttcaggctgg  | agccaggctg | ggggtgctgg | gtggagagat | gagatttagg | gggtgcctca  | 480  |
| tggggtgggc  | aggcctgggg | tgaaatraga | aaggcccaga | acgtgcagg  | ctgcggagg   | 540  |
| gaagtgtcct  | gagtgaagga | ggggaccccc | atcctggggg | atgctgggag | tgagtgagtg  | 600  |
| agatggctga  | gtgagggtta | tggggagcct | gaggttttat | gggcctgtgt | atccccctt   | 660  |
| cccgccccca  | gcctgcctcc | ctcctgccc  | cctggcccac | aggtctccct | ctggtccctg  | 720  |
| tcctcttggt  | ggttggggat | ggagcggcag | caaggggtgt | aatggggctg | ggttctgtct  | 780  |
| tctacaggcc  | accccgaggt | cctcagtggt | tgctgggga  | gccggacggg | gctcctgagg  | 840  |
| ggtacagggt  | gggtgggccc | tcctgagggg | tctggggcca | ggctttggct | ctgctgcctc  | 900  |
| tcagtcacca  | agtcacctcc | ctctgaaaa  | ccagtcctct | ctttggatgt | ccttgtgagt  | 960  |
| cactctgggc  | ctggctgtcg | tcctcctca  | gcttctgtt  | cctgggacaa | gggtcaagcc  | 1020 |
| aggatgggccc | caggcctggg | atccccacc  | ccaggacccc | caggccccct | cccctgctgc  | 1080 |
| tttgccggggg | gcagggcaga | aatggactcc | ttttgggtcc | ccgaggtggg | gtcccctccc  | 1140 |
| agccctgcct  | cctccgtgcc | ctagacctgc | tcccagagg  | aggggccttg | acccacagga  | 1200 |
| cgtgtgggtg  | cgctgggcac | tcagggaccc | ccagctggcc | cagccctggt | ctctggcgca  | 1260 |
| tctcttccct  | cttgtccgca | agatctgcgc | ctctagtgcc | ttttgagggg | ttcccatcat  | 1320 |
| ccctccctga  | tattgtattg | aaaatattat | gcacactgtt | catgcttcta | ctaatacaata | 1380 |
| aaagctttat  | ttaaagccaa | aaaaaaaaaa | aaaaaactcg | aggggggggc | cgtacccaat  | 1440 |
| tcgcca      |            |            |            |            |             | 1446 |

<210> 21

<211> 1471

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1470)

<223> n equals a,t,g, or c

<400> 21

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| caaaaaataa | taatgataat  | ttaaaataaa  | taagtaacta  | ataaaaagat  | tttatatccc | 60   |
| agtcttatga | tgttgggttg  | caaggctaga  | taaaaagatg  | ttagaatgaa  | agaacatatt | 120  |
| tttagtgata | tgtaaatgaa  | ggattctaca  | atagtcatat  | atttttatat  | gaatgaatgt | 180  |
| tggttggggc | tgagagggtg  | tgtgtgtgta  | aatataaagg  | tctcacattc  | agagtatagc | 240  |
| tctgaaataa | tggaactcat  | gtctacaatt  | caacatgcat  | ctgtatagtt  | acatctcatg | 300  |
| taaatataca | cagacatatt  | ttgcagccag  | taattgacag  | ttaatgtcca  | aaacagggtg | 360  |
| ttgataggta | acagaaaatta | gataaccacc  | aattttgccc  | aagagaaaaga | ctagaaggac | 420  |
| taaaagcagt | tgaatgtatg  | gtactgacat  | tgtcataagc  | agtcgtgata  | ccagtttatt | 480  |
| gaaacgtgtg | cattaacaga  | gaatttaatt  | ttaaaccocat | aattttctcct | atccattaaa | 540  |
| atattataat | tgtagtagt   | atgaaaccaa  | caggaaatgt  | tttttaatac  | tttagtgagg | 600  |
| tgattcattt | gtttcatggg  | caaacactat  | ccaggaaaag  | ccttgcttgc  | ctgtttccca | 660  |
| aagagctcta | agaaatagaa  | tcaagtgtaa  | aatgggttcag | accattcagg  | attttctgtc | 720  |
| actcttctca | accccgatct  | tcctgttatt  | actgatgttt  | gaaaccctgt  | cattagcccc | 780  |
| ggcctgggta | aagcccccca  | gagtcacctc  | tcattcatag  | caatagaatt  | caacccccag | 840  |
| tggttgatgg | tgtccccagc  | acagccgaga  | gacctgatct  | ctggattcag  | tgcttttagc | 900  |
| tcttcagatt | taccctaaga  | taccttcggg  | caatattttt  | aaccaaccca  | aaagctcttc | 960  |
| aggtcatttc | tgaagaggac  | aagggtgaatc | ttggcttgga  | acaccatttt  | tgggtctctg | 1020 |

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| ctactgaatg  | aatcagaaag  | gaattttttc  | tgaagagcat | tagaaagtaa | aggagatggt  | 1080 |
| aaaataagtt  | cttgaagtat  | gtttttatatt | tatctaaaac | actgatttta | aaagttttaca | 1140 |
| ttcaaagtgt  | tattcaaaaag | aagtactgat  | ttgtaattat | tatagtttgt | gtgtatcatt  | 1200 |
| ccctttttaac | cgtgcctaac  | aactgtactt  | aaatttttgt | ttcctagtgt | aacaaatggt  | 1260 |
| tcccataaga  | ttttctagag  | ccaaataatg  | ggagtgaaaa | attccttaag | tggtatataa  | 1320 |
| gaaaatatat  | tagaaaatca  | gctttggatt  | atagcatttc | taaaatatac | taatacagaa  | 1380 |
| tcctcagtaa  | tatgttttga  | attggatttt  | ttctcagaac | tgttacataa | taaataatac  | 1440 |
| atcaaccaga  | aaaaaaaaaa  | aaaaaaattn  | c          |            |             | 1471 |

<210> 22  
 <211> 1402  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 22    |             |            |             |             |             |      |
| agggacgtct  | tgccctgagga | gatgcccatt | tctgtcctgg  | rttaccctca  | ctgcgtgggtg | 60   |
| catgagctgc  | cagagctgac  | ggcggagagt | ttggaagcag  | gtgacagtaa  | ccaattttgc  | 120  |
| tggaggaacc  | tctttttctg  | tatcaatctg | cttcggatct  | tgaacaagct  | gacaaagtgg  | 180  |
| aagcattcaa  | ggacaatgat  | gctgggtggg | ttcaagtcag  | ccccatctt   | gaagcggggc  | 240  |
| ctaaagggtga | aacaagccat  | gatgcagctc | tatgtgctga  | agctgctcaa  | ggtacagacc  | 300  |
| aaatacttgg  | ggcggcagtg  | gcgaaagagc | aacatgaaga  | ccatgtctgc  | catctaccag  | 360  |
| aagggtgcggc | atcggttgaa  | cgacgactgg | gcatacggca  | atgatcttga  | tgccgggcct  | 420  |
| tgggacttcc  | aggcagagga  | gtgtgccctt | cgtgcccaaca | ttgaacgctt  | caacgcccgg  | 480  |
| cgctatgacc  | gggcccacag  | caaccctgac | ttcctgccag  | tggaacaactg | cctgcagagt  | 540  |
| gtcctggggc  | aacgggtgga  | cctccctgag | gactttcaga  | tgaactatga  | cctctgggta  | 600  |
| gaaagggagg  | tctttctcaa  | gcccatttcc | tgggaagagc  | tgctgcagtg  | aggctgtttg  | 660  |
| ttaggggact  | gaaatggaga  | gaaaagatga | tctgaaggta  | cctgtgggac  | tgctcctagt  | 720  |
| cattgtctga  | gtgtctccat  | ccccaccag  | gtggcagcac  | agccccactg  | tgtcttccgc  | 780  |
| agtctgtcct  | gggcttgggt  | gagcccagct | tgacctcccc  | ttggttccca  | gggtcctgct  | 840  |
| ccgaagcagt  | catctctgcc  | tgagatccat | tcttctctta  | mttcccccam  | cctcctctct  | 900  |
| tggatatggt  | tggtttttggc | tcatttcaca | atcagcccaa  | ggytgggaaa  | gctggaatgg  | 960  |
| gatgggaacc  | cctccgcctg  | gcacttraat | ttcaggggtc  | atgctgatgc  | ctctcgagac  | 1020 |
| atacaaatcc  | ttgcctttgt  | cagcttgcaa | aggaggagag  | tttaggatta  | gggccagggc  | 1080 |
| cagaaagtgc  | gtatcttggg  | tgtgtctctg | gggtgggggtg | gggtgtttct  | gatgttattc  | 1140 |
| cagcctcctg  | ctacattata  | tccagaagta | attgoggagg  | ctccttcagc  | tgccctagca  | 1200 |
| ctttgatatt  | ggacagggac  | aaggtaggaa | gagaagcttc  | ccttaaccag  | agggggccatt | 1260 |
| tttccctttg  | gctttcgagg  | gcctgtaaat | atctatatat  | aattctgtgt  | gtattctgtg  | 1320 |
| tcattgttgg  | gttttttaatg | tgatttgtga | ttctgtttac  | attaaaaaga  | agcaaaaata  | 1380 |
| ataaaaaaaaa | aaaaaaaaaa  | ct         |             |             |             | 1402 |

<210> 23  
 <211> 1047  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (301)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 23   |            |            |            |            |            |     |
| ggcacagggg | actacaggca | cccacgacca | taccagcta  | atttttgrat | ttttttgtag | 60  |
| agatgggggt | tcacgatgtc | gcccaggctg | gtcttgaact | cctgggcttg | agcgatcttc | 120 |
| ccatctttcc | atcttggcct | cctaaagtgc | tgggactgca | ggcatgagcc | accatgcccc | 180 |
| gccaagattc | ttattgatta | ccatgttgct | tcaagaagcc | aagccagttt | ccaatatctc | 240 |
| ccatttgctg | gagtccttgg | accttgggta | gaagcaactg | gtaaattggt | aattggaaca | 300 |



|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| nttgggtggtg | tagataacca | cgtatggcca | aacctagagc  | atctaggctc  | acaattacta  | 360  |
| tcttgacttg  | ataacaagtg | ttctgatatt | aacctgaaaa  | tgggaataat  | gccaaatctg  | 420  |
| tgtaacttaa  | catctatata | cacagtgggg | agaactgaag  | ttattaaacc  | tggaatctct  | 480  |
| gtgatcaagg  | ctaacagtag | ttatctaaga | agcaaaggac  | ctacaattct  | tagacttgga  | 540  |
| gtcatattct  | ttaaggacgt | gttctgaaac | tatatcaagc  | atctggtttc  | caogtatttc  | 600  |
| tccctcagaa  | attatgaagt | acaagtaaaa | atgaagggtac | agggtgaagac | acatgctgct  | 660  |
| ttcttgctct  | tgagtggaga | cagttttcca | gccatcttaa  | ccccttwaca  | caaaacaatt  | 720  |
| tgtgttttat  | agcaaataag | tgactcaaca | taatttcaat  | atgatgttta  | tccaccagta  | 780  |
| ctttcctttc  | agcttctagt | cccataartg | gtttgtgaag  | tcacgggtta  | cattagccaa  | 840  |
| gataggccta  | gacttgaagt | ctagaatgtt | tttcccacta  | tatgccaaag  | tagaatgtgg  | 900  |
| gtatctcagg  | gtcatttttg | ttgttcaatt | tcccacctgt  | acagttgtta  | tgattcactt  | 960  |
| tccttatgtg  | tctaataaat | cttgttccat | gaaatgatca  | aaaaaaaaaa  | aaaaaaaaact | 1020 |
| cgaggggggg  | cccggtaccc | aaatcgc    |             |             |             | 1047 |

<210> 24  
 <211> 990  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (834)  
 <223> n equals a,t,g, or c

|            |   |
|------------|---|
| <400> 24   |   |
| ttggaaaggg | tctagctctt tctcattcac caactatatt agaagcactt gagggaaatt 60   |
| taccactcca | aatccaaagc aatgaacagt cttttctgga tgattttatt gccgtgtgcc 120  |
| caggatcaag | tggtggaagg cttgcaaggt ggcttcagcc agattcataat gccgatcctc 180 |
| agaaaacatc | tttgatcctg gaataaggat gatattcggt gtggttggcc taccaccata 240  |
| actgttcaaa | caaaagacca gtatggggat gtggtacatg ttcccaatat gaaggtaatt 300  |
| ataactggat | taaattagca gacatctata tactggctgc aatgactgat aaaatttttag 360 |
| aaatgccaa  | tgctgagrgt ccatttggtc taccctcttt atataaaggg tgatgctgaa 420  |
| agtttgttta | aatgacttgt ttatattaat tagtcccacaa gtgtccaagt tacacctggt 480 |
| ttttttgtga | gtttgttctt tacattttgc tacctgttac ggggactcaa aggagggata 540  |
| agaaagtata | catctaaaga gtgctagaca catacagtga agccocctcaa tatgtattga 600 |
| ttgaataaat | gcatgaaaga atacattttt aaattttgtg tatagttttg aaagactcaa 660  |
| gtacgttctg | tgtttggtat tactgaaacc acatttttaa aataacactc attaatgttag 720 |
| aaatatatga | gttttagattg taaaagaatg aggaattgaa atagtgtgat accatattga 780 |
| tgaatataga | gttttttagga tacctcttac ctgaaatatt aataataatg tttncagagc 840 |
| atattataca | taattatttg tgatttaatc tggttaatat aatatctcat ttaaaacttt 900  |
| tatttctgaa | aaaattatat tgaataaaat tttatatagg cagtccccag cccttctcctc 960 |
| cttcaaagtt | gtcttataga gtgatttggtt 990                                  |

<210> 25  
 <211> 1208  
 <212> DNA  
 <213> Homo sapiens

|            |   |
|------------|---|
| <400> 25   |   |
| taatcgctac | tatagggaaa gctggtoget gcaggtaccg gtccgggaatt ccgggtcgac 60  |
| ccacgcgtcc | gagcgaaatg gcgcctccgg cccccggccc ggctccgggg 120             |
| aggtagacga | gctgttcgac gtaaagaacg ccttctacat cggcagctac cagcagtgc 180   |
| taaacgaggg | gcasgggtga agctrtcaag cccagagaga gacgtggaga gggacgtctt 240  |
| cctgtataga | gcgtacctgg cgcagaggaa gtctgggtgtg gtcctggatg agatcaagcc 300 |
| ctcctcgggc | cctgagctcc aggcgctgag catgtttgct gactacctcg cccacgagag 360  |
| tgggaggggc | agcatcggtg ccgagctgga ccgagagatg agcaggagck tggacgtgac 420  |

|            |             |            |            |             |             |      |
|------------|-------------|------------|------------|-------------|-------------|------|
| caacaccacc | ttcctgctca  | tggcgcctc  | catctatctc | cacgaccaga  | acccggatgc  | 480  |
| cgcctgctg  | gcgctgcacc  | agggggacag | cctggagtgc | acagccatga  | cagtgcagat  | 540  |
| cctgctgaag | ctggaccgcc  | tggacctcgc | cgggaaggag | ctgaagagaa  | tgcaggacct  | 600  |
| ggacgaggat | gccaccctca  | cccagctcgc | cactgcctgg | gtcagcctgg  | ccacgggtgg  | 660  |
| tgagaagctg | caggatgcct  | actacatctt | ccaggagatg | gctgacaagt  | gctcgccccc  | 720  |
| cctgctgctg | ctcaatgggc  | aggcggcctg | ccacatggcc | cagggccgct  | gggaggccgc  | 780  |
| tgagggcctg | ctgcaggagg  | cgctagacaa | ggatagtggc | taccrcrgaga | cgctgggtcaa | 840  |
| cctcatcgtc | ctgtcccagc  | acctkggcaa | gccccctgag | gtgacaaaacc | gatacctgtc  | 900  |
| ccagctgaag | gatgccccaca | ggtcccatcc | cttcatcaag | gagtaccagg  | ccaaggagaa  | 960  |
| cgactttgac | aggctgggtg  | tacagtacgc | tcccagcgct | gaggctggcc  | cagagctgtc  | 1020 |
| aggaccatga | agccaggaca  | gaggccagga | gccagccctg | cagccctccc  | cacccggcat  | 1080 |
| ccacctgcat | ccctctgggg  | caggagccca | cccccagcac | ccccatctgt  | taataaatat  | 1140 |
| ctcaactcca | rggtgttcca  | cctgaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 1200 |
| aaaaaaaa   |             |            |            |             |             | 1208 |

&lt;210&gt; 26

&lt;211&gt; 1922

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1022)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 26

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gtgctgcgct  | actgagcagc  | gccatggagg  | actctgaagc  | actgggcttc  | gaacacatgg  | 60   |
| gcctcgatcc  | ccggtccctt  | caggctgtca  | ccgatctggg  | ctggtcgcca  | cctaogctga  | 120  |
| tccaggagaa  | ggccatccca  | ctggccctag  | aagggaagga  | cctcctggct  | cgggcccgca  | 180  |
| cgggctccgg  | gaagacggcc  | gcttatgcta  | ttccgatgct  | gcagctgttg  | ctccatagga  | 240  |
| aggcgacagg  | tccggtggta  | gaacaggcag  | tgagaggcct  | tgttcttgtt  | cctaccaagg  | 300  |
| agctggcacg  | gcaagcacag  | tccatgattc  | agcagctggc  | tacctaactgt | gctcgggatg  | 360  |
| tccgagtggc  | caatgtctca  | gctgctgaag  | actcagcttc  | tcagagagct  | gtgctgatgg  | 420  |
| agaagccaga  | tgtggtagta  | gggaccccat  | ctcgcatatt  | aagccacttg  | cagcaagaca  | 480  |
| gcctgaaact  | tcgtgactcc  | ctggagcttt  | tgggtgggtga | cgaagctgac  | cttctttttt  | 540  |
| cctttggctt  | tgaagaagag  | ctcaagagtc  | tcctctgtca  | cttgcccccg  | atttaccagg  | 600  |
| cttttctcat  | gtcagctact  | tttaacgagg  | acgtacaagc  | actcaaggag  | ctgatattac  | 660  |
| ataacccggt  | tacccttaag  | ttacaggagt  | cccagctgcc  | tgggccagac  | cagttacagc  | 720  |
| agtttcaggt  | ggtctgtgag  | actgaggaag  | acaaattcct  | cctgctgtat  | gcctgctca   | 780  |
| agctgtcatt  | gattcggggc  | aagtctctgc  | tctttgtcaa  | cactctagaa  | cggagttacc  | 840  |
| ggctacgcct  | gttcttggaa  | cagttcagca  | tccccacctg  | tgtgctcaat  | ggagagcttc  | 900  |
| cactgcgctc  | cagggtgccac | atcatctcac  | agttcaacca  | aggcttctac  | gactgtgtca  | 960  |
| tagcaactga  | tgctgaagtc  | ctggggggccc | cagtcagggg  | caagcgctcg  | ggccgagggc  | 1020 |
| cnaaagggga  | caaggcctct  | gacccggaag  | cagggtgtggc | ccggggcata  | gacttccacc  | 1080 |
| atgtgtctgc  | tgtgtctaac  | tttgatcttc  | cccccaaccc  | tgaggcctac  | atccatcgag  | 1140 |
| ctggcaggac  | agcacgcgct  | aacaacccag  | gcatagtctt  | aacctttgtg  | cttcccacgg  | 1200 |
| agcagttcca  | cttaggcaag  | attgaggagc  | ttctcagtg   | agagaacagg  | ggccccattc  | 1260 |
| tgctcccccta | ccagttccgg  | atggaggaga  | tcgagggtct  | ccgctatcgc  | tgcagggatg  | 1320 |
| ccatgcgcctc | agtgactaag  | caggccattc  | gggaggcaag  | attgaaggag  | atcaagggaag | 1380 |
| agcttctgca  | ttctgagaag  | cttaagacat  | actttgaaga  | caaccctagg  | gacctccagc  | 1440 |
| tgctgcgcca  | tgacctacct  | ttgcaccccg  | cagtggtgaa  | gccccacctg  | ggccatgttc  | 1500 |
| ctgactaact  | ggttctctct  | gctctccgtg  | gcctgggtrog | ccctcacaag  | aagcgggaaga | 1560 |
| agctgtcttc  | ctottgttag  | aaggccaaga  | gagcaaagtc  | ccagaaccca  | ctgcgcagct  | 1620 |
| tcaagcacaa  | aggaaagaaa  | ttcagaccca  | cagccaagcc  | ctcctgaggt  | tgttgggctt  | 1680 |
| ctctggagct  | gagcacattg  | tggagcacag  | gcttacaccc  | ttcgtggaca  | ggcgaggctc  | 1740 |
| tggtgcttac  | tgcacagcct  | gaacagacag  | ttctggggcc  | ggcagtgctg  | ggcccttttag | 1800 |
| ctccttggca  | cttccaagct  | ggcatcttgc  | cccttgacaa  | cagaataaaa  | attttagctg  | 1860 |

ccccaaaaaa aaaaaaaaaa aaaaaaactc gagggggggc ccgtacccaa ttccgcctat 1920  
aa 1922

<210> 27  
<211> 1951  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1892)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1930)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1934)  
<223> n equals a,t,g, or c

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agtacacgct ggtggttagat gagcatgcac agctggagct ggtgagcctg cgcctgtctt 180  
cggagactac agtgacgaga gtgactctgc caccgtctat gacaactgtg cctccgtctc 240  
ctcgccttat gagtcggcca tcggagagga atatgaggag gcccccgggc cccagccccc 300  
tgcttgcctc tccgaggaac tccacgcctg atgaaccgga cgtccatttc tocaagaaat 360  
tcctgaacgt yttcatgagt ggccgctccc gctcctccag tgctgagtec ttccggctgt 420  
tctcctgcat catcaacggg gaggagcagg agcagaccca ccggggccata ttcaggtttg 480  
tgccctcgaca cgaagacgaa cttgagctgg aagtggatga cctctgtcta gtggagctcc 540  
aggctgaaga ctactggtac gaggcctaca acatgcgcac tgggtgcccg ggtgtctttc 600  
ctgcctatta cgccatcgag gtcaccaagg agccccagca catggcagcc ctggccaaaa 660  
acagtgactg ggtggaccag ttccgggtga agttcctggg ctcagtccag gttccctatc 720  
acaagggcaa tgacgtctc tgtgctgcta tgcaaaagat tgccaccacc cgcgggctca 780  
ccgtgcactt taaccgccc tccagctgtg tctggagat cagcgtgagg ggtgtgaaga 840  
taggcgtcaa ggccgatgac tcccaggagg ccaaggggaa taaatgtagc cactttttcc 900  
agttaaaaaa catctctttc tgcggatata atccaaagaa caacaagtac tttgggttca 960  
tcaccaagca ccccgccgac caccggtttg cctgccacgt ctttgtgtct gaagactcca 1020  
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agtacacctg cccacagaa gatattctacc tggagtagct gtgcagcccc gccctctgag 1140  
tccccagcc ctgaggccag tgccaggaca gctggctgct gacaggatgt ggcactgctt 1200  
gaggaggggc acctgccacc gccagaggac aaggaaagtgg ggcgtggcc cagggtaggg 1260  
gaggggtggg caatggggag aggcataatgc agtttattgt aatatatggg attagattca 1320  
tctatggagg gcagagtggg ctgcctgggg attgggaggg acagggcttg gggagcaggt 1380  
ctctggcaga gaaggatgtc cgttccagga gcacacggcc ctgccccatc ctgggcctta 1440  
cctcccctgc cagggtctcg gcgctgtggc tctgctcttg atgaagcccg tgtcctgctt 1500  
tgatgaagcc tgtgccacct gcaagtgcgc gccctgcccc tgccccaacc cccaccgaag 1560  
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aggagctgcc gcaaggccct gtcccagcag aagaggaggg ctccctgact gacacaggcc 1800  
agccccatct tggctctgtc acctggccc caactattaa agtgccattt cctgtcaaaa 1860  
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aaaattcccn ggcngtggtt ttaaaaattc g 1951

<210> 28  
 <211> 3989  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> n equals a,t,g, or c

<400> 28

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| ggcacaggcc  | gcaggggnacc | tatgggcgca | tataggttgt  | aatgaaactg  | tagttctcagt | 60   |
| tggaagccta  | gacatgaaat  | gggtcagtga | gcaaggctct  | attcctagtc  | tcagccatg   | 120  |
| cctgtggaac  | ctgarccrc   | tctcagcaca | ttggaccag   | gcagatgyaa  | aaaattcaca  | 180  |
| gaactatgat  | ttggactcaa  | gggtttgtag | atttctctct  | tcattctaata | ttcagtgtct  | 240  |
| aaaattcttg  | catcortgaa  | cgagctgggc | atttgatgag  | acagggcyga  | atactgcagt  | 300  |
| tttcctccta  | gaaatcatct  | ggggcatttt | ctttgaaactg | atgggaacaa  | taaggcataa  | 360  |
| ctgtttgcac  | aaacttggga  | taartgattt | tgggataacg  | atctaccaga  | atggggat    | 420  |
| ttcacccttg  | gttctgagat  | gcaaaccaaa | gaatatcatg  | accagcttct  | aggcctcctg  | 480  |
| aagtatatct  | ctcacattgt  | cctgttctca | tgctgaggag  | cctgagatcc  | ctgtgtgggg  | 540  |
| attagacagt  | ggactgttat  | gggtgtaggt | gaattggcct  | attttgtctg  | tcctgtctg   | 600  |
| aatgtattgc  | aggaaytaaa  | aaggaccaag | aagaggaaga  | agaccaaggc  | ccaccatgcc  | 660  |
| ccaggctcag  | cagggagctg  | ctggaggtag | tagagcctga  | agtcttgcag  | gactcactgg  | 720  |
| atagatgtta  | ttcaactcct  | tccagtgtgc | ttgaacagcc  | tgactcctgc  | cagccctatg  | 780  |
| gaagtctctt  | ttatgcattg  | gaggaaaaac | atgttggcct  | ttctcttgac  | gtgggagaaa  | 840  |
| ttgaaaagaa  | ggggaagggg  | aagaaaagaa | ggggaagaag  | atcaaagaag  | gaaagaagaa  | 900  |
| ggggaagaaa  | agaaggggaa  | gaagatcaaa | accaccatg   | cccaggctc   | agcagggagc  | 960  |
| tgctggatga  | gaaagrgcct  | gaagtcttgc | aggactcact  | ggatagatgt  | tattcaactc  | 1020 |
| cttcagttgt  | gttgaaactgt | gtgactcatg | ccagccctac  | agaagtgcct  | tttatgtatt  | 1080 |
| ggagcaacag  | catgttggct  | tggctgttga | catggatgaa  | attgaaaagt  | accaagaagt  | 1140 |
| ggaagaagac  | caagacccat  | catgccccag | gtcagcagg   | gagctgctgg  | atgagaaaga  | 1200 |
| gcctgaagtc  | ttgcaggact  | cactggatag | atgttattcg  | actccttcag  | gttatcttga  | 1260 |
| actgctctgac | ttaggccagc  | cctacagcag | tgckgtttac  | tcattggagg  | amcaktacct  | 1320 |
| tggcttkkct  | cttgacgtgg  | asaaattgaa | aagaagggga  | aggggaaraa  | aagaagggga  | 1380 |
| agaagatcaa  | agaaggaaaag | aagaagggga | agaaaagaag  | gggaagaaga  | tcaaaaccca  | 1440 |
| ccatgccccca | ggctcagcag  | ggagctgctg | gatgagaaag  | ggcctgaagt  | cttgcaggac  | 1500 |
| tcactggata  | gatgttattc  | aactccttca | ggttgtcttg  | aactgactga  | ctcatgccag  | 1560 |
| ccctacagaa  | gtgcctttta  | yrtattggag | caacagygtg  | ttggcttggc  | tgttgacatg  | 1620 |
| gatgaaattg  | aaaagtacca  | agaagtggaa | gaagaccaag  | acccatcatg  | cccaggctc   | 1680 |
| agcaggggagc | tgctggatga  | gaaagagcct | gaagtcttgc  | aggactcact  | ggatagatgt  | 1740 |
| tattcgactc  | cttcaggtta  | tcttgaactg | cctgacttag  | gccagcccta  | cagcagtgtc  | 1800 |
| gtttactcat  | tggaggaaca  | gtaccttggc | ttggctcttg  | acgtggacag  | aattaaaaag  | 1860 |
| gaccaagaag  | aggaagaaga  | ccaaggccca | ccatgccccca | ggctcagcag  | ggagctgctg  | 1920 |
| gaggtagtag  | agcctgaagt  | cttgcaggac | tcactggata  | gatgttattc  | aactccttcc  | 1980 |
| agttgtcttg  | aacagcctga  | ctcctgccag | ccctatggaa  | gttctcttta  | tgcattggag  | 2040 |
| gaaaaacatg  | ttggcttttc  | tcttgacgtg | ggagaaattg  | aaaagaaggg  | gaagggggag  | 2100 |
| aaaagaaggg  | gaagaagatc  | aamgaagraa | agaagaaggg  | gaagaaaaga  | aggggaagaa  | 2160 |
| gatcaaaacc  | caccatgcc   | caggctcaac | ggcgtgctga  | tggaaagtga  | agagcstgaa  | 2220 |
| gtcttaacag  | actcactgga  | tagatgttat | tcgactccgt  | caatgtactt  | tgaactacct  | 2280 |
| gactcattcc  | agcactacag  | aagtgtgttt | tactcatttg  | aggaacagca  | catcagcttc  | 2340 |
| gccctttacg  | tggacaatag  | gttttttact | ttgacggtga  | caagtctcca  | cctgggtgttc | 2400 |
| cagatgggag  | tcatattccc  | acaataagca | gcccttasta  | akccgagaga  | tgtcattcct  | 2460 |
| gcaggcagga  | cctataggca  | mgtgaagatt | tgaatgaaag  | tacagttcca  | tttggagacc  | 2520 |
| cagacatagg  | atgggtcagt  | gggcatggct | ctattcctat  | tctcaaacca  | tgccagtggc  | 2580 |
| aacctgtgct  | cagtctgaag  | acaatggacc | caggttaggt  | gtgacacgtt  | cacataactg  | 2640 |
| tgcagcacat  | gccgggagtg  | atcagtcrga | cattttaact  | tgaaccacgt  | atctctgggt  | 2700 |

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| agctacaaaa  | ttcctcaggg  | atttcatttt  | gcaggcatgt  | ctctgagctt  | ctatacctgc  | 2760 |
| tcaaggtcak  | tgtcatcttt  | gtgttttagct | catccaaagg  | tgttaccctg  | gtttcaatga  | 2820 |
| acctaacctc  | attctttgtg  | tcttcagtgt  | tggtttgttt  | tagctgatcc  | atctgtaaca  | 2880 |
| caggagggat  | ccttggtctga | ggattgtatt  | tcagaaccac  | caactgctct  | tgacaattgt  | 2940 |
| taaccgccta  | grctcctttg  | gttagagaag  | ccacagtcct  | tcagcctcca  | attggtgtca  | 3000 |
| gtacttagga  | agaccacagc  | tagatggaca  | aacagcattg  | ggaggcctta  | gccctgctcc  | 3060 |
| tctcrattcc  | atcctgtaga  | gaacaggagt  | caggagccgc  | tggcaggaga  | cagcatgtca  | 3120 |
| cccaggactc  | tgccggtgca  | gaatatgaac  | aaygccatgt  | tcttgagaa   | aacgcttagc  | 3180 |
| ctgagtttca  | taggaggtaa  | tcaccagaca  | actgcagaat  | gtrgarcact  | gagcaggaca  | 3240 |
| gctgacctgt  | ctccttcaca  | tagtccatrt  | caccacaaat  | cacacaacaa  | aaaggagarg  | 3300 |
| agatatattg  | ggttcacaaa  | aagtaaaaag  | ataatgtagc  | tgcatttctt  | tagttatttt  | 3360 |
| garcccca    | tatttcctca  | tctttttgtt  | gttgcatk    | atggtggtga  | catggacttg  | 3420 |
| tttatagagg  | acaggctcagc | tgtctggctc  | agtgatctac  | attctgaagt  | tgtctgaaaa  | 3480 |
| tgtcttcctg  | attaaattca  | gcctaaacgt  | tttgccggga  | acactgcaga  | gacaatgctg  | 3540 |
| tgagtttcca  | acctyagccc  | atctgcccgc  | agagaagggtc | tagtttgtcc  | atcascatta  | 3600 |
| tcagtataatc | aggactgggt  | acttggttaa  | ggaggggtct  | aggagatctg  | tccttttttag | 3660 |
| agacacctta  | cttataatga  | agtatttggg  | agggtgggtt  | tcaaaattag  | aatgtcctg   | 3720 |
| tattccratg  | atcatcctgt  | aaacatttta  | tcatttatta  | atcatccctg  | cctgtgtcta  | 3780 |
| ttattatatt  | catatctcta  | cgttggaac   | tttctgcctc  | aatgttact   | gtgcctttgt  | 3840 |
| ttttgctagt  | gtgtgtgtgt  | gaaaaaaaa   | acattctctg  | cctgagtttt  | aatttttgtc  | 3900 |
| caaagttatt  | ttaatctata  | caattaaaag  | cttttgcccta | tcaaaaaaaaa | aaaaaaaaaa  | 3960 |
| aaaaaaaaaa  | aaaaagcgga  | cgcgtgggc   |             |             |             | 3989 |

&lt;210&gt; 29

&lt;211&gt; 3735

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3690)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3716)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 29

|            |             |             |             |             |            |     |
|------------|-------------|-------------|-------------|-------------|------------|-----|
| ctgctgttcg | ctggtctgggc | tcgcagcag   | gcttgccag   | csgctgacgg  | gtcggcgggc | 60  |
| gggtttgtgt | gaacaggcac  | gcagctgcag  | atttttattct | ggtagtgcan  | ccctctcaaa | 120 |
| ggttgaagga | actgatgtaa  | cagggtattga | agaagtagta  | attccaaaaa  | agaaaacttg | 180 |
| ggataaagta | gccgttcttc  | aggcacttgc  | atccacagta  | aacagggata  | ccacagctgt | 240 |
| gccttatgtg | tttcaagatg  | atccttacct  | tatgccagca  | tcattcttgg  | aatctcgttc | 300 |
| atttttactg | gcaaagaaat  | ccggggagaa  | tgtggccaag  | tttattatta  | attcataccc | 360 |
| caaatatatt | cagaaggaca  | tagctgaacc  | tcataataccg | tgtttaattg  | ctgagtactt | 420 |
| tgaacctcag | atcaaagaca  | taagtgaagc  | cgccctgaag  | gaacgaattg  | agctcagaaa | 480 |
| agtcaaagcc | tctgtggaca  | tgtttgatca  | gcttttgcaa  | gcaggaaacca | ctgtgtctct | 540 |
| tgaacaaca  | aatagtctct  | tggatttwtt  | gtgttactat  | ggtgaccagg  | agccctcaac | 600 |
| tgattaccat | tttcaacaaa  | ctggacagtc  | agaagcattg  | gaagaggaaa  | atgatgagac | 660 |
| atctaggagg | aaagctgggc  | atcagtttgg  | agttacatgg  | cgagcaaaaa  | acaacgctga | 720 |
| gagaatcttt | tctctaattg  | cagagaaaaa  | tgaacattcc  | tattgcacaa  | tgatccgagg | 780 |

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| aatggtgaag  | caccgagctt  | atgagcaggc  | attaaacttg  | tacactgagt | tactaaacaa  | 840  |
| cagactccat  | gctgatgtat  | acacatttaa  | tgcattgatt  | gaagcaacag | tatgtgcat   | 900  |
| aaatgagaaa  | tttgaggaaa  | aatggagtaa  | aatactggag  | ctgctaagac | acatggttgc  | 960  |
| acagaagggtg | aaaccaaattc | ttcagacttt  | taataccatt  | ctgaaatgtc | tccgaagatt  | 1020 |
| tcatgtgttt  | gcaagatcgc  | cagccttaca  | ggttttacgt  | gaaatgaaag | ccattggaat  | 1080 |
| agaaccctcg  | cttgcaacat  | atcaccatat  | tattgcctcg  | tttgatcaac | ctggagaccc  | 1140 |
| tttaaagaga  | tcattccttca | tcatttatga  | tataatgaat  | gaattaatgg | gaaagagatt  | 1200 |
| ttctccaaaag | gaccgggatg  | atgataagtt  | ttttcagtca  | gccatgagca | tatgtctatc  | 1260 |
| tctcagagat  | ctagaacttg  | cctaccaagt  | acattggcctt | ttaaaaaccg | gagacaactg  | 1320 |
| gaaattcatt  | ggacctgatc  | aacatcgtaa  | ttctatttat  | tccaagttct | tcgatttgat  | 1380 |
| ttgtctaatg  | gaacaaattg  | atgttacctt  | gaagtgggtat | gaggacctga | taccttcagc  | 1440 |
| ctactttccc  | cactcccaaa  | caatgatata  | tcttctccaa  | gcattggatg | tggccaatcg  | 1500 |
| gctagaagtg  | attcctaaaa  | tttgaaaga   | tagtaaagaa  | tatggtcata | ctttccgcag  | 1560 |
| tgacctgaga  | gaagagatcc  | tgatgctcat  | ggcaagggac  | aagcaccac  | cagagcttca  | 1620 |
| ggtggcattt  | gctgactgtg  | ctgctgatat  | caaactctcg  | tatgaaagcc | aacctatcag  | 1680 |
| acagactgct  | caggattggc  | cagccacctc  | tctcaactgt  | atagctatcc | tctttttaag  | 1740 |
| ggctggggaga | actcaggaag  | cctggaaaat  | gttggggcctt | ttcaggaagc | ataataagat  | 1800 |
| tcctagaagt  | gagttgctga  | atgagcttat  | ggacagtgca  | aaagtgtcta | acagcccttc  | 1860 |
| ccaggccatt  | gaagtagtag  | agctggcaag  | tgccttcagc  | ttacctattt | gtgagggcct  | 1920 |
| caccagaga   | gtaatgagt   | attttgcaat  | caaccaggaa  | caaaaggaag | ccctaagtaa  | 1980 |
| tctaactgca  | ttgaccagt   | acagtgtac   | tgacagcagc  | agtgtacagc | acagtgtac   | 2040 |
| cagtgaaggc  | aaatgaaagt  | ggagattcag  | gagcagcaat  | ggtctcacca | tagctgtctg  | 2100 |
| aatcacacct  | gagaactgag  | atataccaat  | atttaacatt  | gttacaaga  | agaaaagata  | 2160 |
| cagatttggt  | gaatttggtt  | ctgtgaggt   | cagtcagtac  | acagctgact | tatgtagatt  | 2220 |
| taagctgcta  | atatgctact  | taaccatcta  | ttaatgcacc  | attaaaggct | tagcatttaa  | 2280 |
| gtagcaacat  | tgcggttttc  | agacacatgg  | tgaggtccat  | ggctcttgct | atcaggataa  | 2340 |
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| catcttaggt  | gttcatgcag  | ttctaacaca  | gttgggggtg  | ggtcaatagt | ttcccaattt  | 2520 |
| caggatattt  | cgatgtcaga  | aataacgcac  | ccttaggaatg | actaaacaag | ataatggcag  | 2580 |
| tttaggctgc  | acaactggta  | aaatgactgt  | agataaatgt  | tgtaattagt | gtacacgttt  | 2640 |
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| atgtctccct  | tttttttttg  | tctatagctg  | ttacctattt  | tagtggttga | aatgagagct  | 2760 |
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| gtaagtggag  | gtttgcagca  | ttcctgcctt  | catgagggct  | tctaccactg | accactttgc  | 2940 |
| acgtacctgg  | ctcccagatt  | tacttaggta  | ccccacgagt  | cgtccacata | agcagcttca  | 3000 |
| tctttacctt  | gccagagtgg  | acaattatgg  | gatactctag  | tctacttata | cttgtgttcc  | 3060 |
| catctgtctg  | ccatcctctg  | aaggccagga  | cccagtcata  | catccttaga | aaccaaagta  | 3120 |
| tggtttttgt  | tttctcttgg  | aatgtcaggt  | cctaaggcat  | ttaattgagg | gacaaaaaaa  | 3180 |
| aaaaaaagcc  | gatatagtag  | ctagctactt  | aagcatccat  | gggtattgct | ccatatcaaa  | 3240 |
| gcagatttgc  | aggacagaaa  | gagtaaatta  | gccttcagtc  | ttggtttaca | gcttccaagg  | 3300 |
| agagccttgg  | ccacctgaaa  | tgtaactcgc  | gtcccttcct  | gtctctagtt | catcagcacc  | 3360 |
| tgcagatgcc  | tgactcttgt  | tagccttact  | attcaatata  | gtccttagat | tcacgggtatg | 3420 |
| cctcttcccta | tccaggcacc  | tattctgaat  | caccatgttg  | ctctgcagct | agagttgata  | 3480 |
| ggagaaaatc  | catttgggta  | gatggcctat  | gaatttgtag  | tagactttca | aaatgagtga  | 3540 |
| tttgcttagct | tggtactttt  | aagtttgtgg  | tacagatcct  | ccaaacccat | actctgagca  | 3600 |
| attaactgcc  | ttgaacatag  | agaaaattaa  | ggcctcacag  | gatgagtctc | cattctctgt  | 3660 |
| aaatgcttat  | tttatcatag  | tcttttagcct | ctactatgag  | taaaatgttc | tcttcngcog  | 3720 |
| ggtgtgggtga | ctcac       |             |             |            |             | 3735 |

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 <211> 1667  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (1628)  
 <223> n equals a,t,g, or c

<400> 30

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| agacttaaaag  | ttagagctgc  | gacgactacg  | agataaacat  | ctcaaagaga | ttcaggacct | 120  |
| gcagagtcgc   | cagaagcatg  | aaattgaatc  | tttgtatacc  | aaactgggca | aggtgcccc  | 180  |
| tgctgttatt   | attccccag   | ctgctcccct  | ttcagggaga  | agacgacgac | ccactaaaag | 240  |
| caaaggcagc   | aaatctagtc  | gaagcagttc  | cttggggaat  | aaaagcccc  | agctttcagg | 300  |
| taacctgtct   | ggtcagagtg  | cagcttcagt  | cttgaccccc  | cagcagaccc | tccacctcc  | 360  |
| tggcaacatc   | ccagagtcgc  | ggcagaatca  | gctgttacag  | ccccttaagc | catctccctc | 420  |
| cagtgcacaac  | ctctattcag  | ccttcaccag  | tgatgggtgc  | atttcagtac | caagcctttc | 480  |
| tgctccaggt   | caaggaacca  | gcagcacaaa  | cactgttggg  | gcaacagtga | acagccaagc | 540  |
| cgcccaagct   | cagcctcctg  | ccatgacgtc  | cagcaggaag  | ggcacattca | cagatgactt | 600  |
| gcacaagttg   | gtagacaatt  | gggcccgcga  | tgccatgaat  | ctctcaggca | ggagaggaag | 660  |
| caaagggcac   | atgaattatg  | agggccctgg  | aatggcaagg  | aagttctctg | cacctgggca | 720  |
| actgtgcac    | tccatgacct  | cgaacctggg  | tggtctctgc  | cccatctctg | cagcatcagc | 780  |
| tacctctcta   | ggtcacttca  | ccaagtctat  | gtgcccccca  | cagcagtatg | gctttccagc | 840  |
| taccccatth   | ggcgtcfaat  | ggagtgggac  | gggtggccca  | gcaccacagc | cacttggcca | 900  |
| gttccaacct   | gtgggaactg  | cctccttgca  | gaatttcaac  | atcagcaatt | tgcagaaatc | 960  |
| catcagcaac   | ccccaggct   | ccaacctgcg  | gaccacttag  | acctagagac | attaactgaa | 1020 |
| tagatctggg   | ggcaggagat  | ggaatgctga  | gggggtgggt  | gggggtggga | agtagcctat | 1080 |
| atactaacta   | ctagtgtctg  | atttaactgg  | ttatttcttg  | ccagagggga | atgtttttaa | 1140 |
| tactgcattg   | agccctcaga  | atggagagtc  | tccccgcctc  | cagttatttg | aatgggagag | 1200 |
| gaaggaaaaga  | acagcttttt  | tgtcaagggg  | cagcttcaga  | ccatgcttct | ctgtttatct | 1260 |
| atactcagta   | atgaggatga  | gggctaggaa  | agtcttgctc  | ataagggaag | tggagaactc | 1320 |
| aatgtaaaat   | caaaccatc   | tgtaatctcg  | agtgggtgga  | gctcttgctt | ttggtacatg | 1380 |
| cctgaatoc    | ctcactccct  | caagaatccg  | aaccacagga  | caaaaaccac | ctactgggct | 1440 |
| ctctcctacc   | ctgccctcct  | cccttttttt  | taccctctct  | ttttttatth | ttcttttget | 1500 |
| ctttagaacc   | cagtgaaaaa  | taccagggtg  | ctgggggtgca | actctttctt | atgataggct | 1560 |
| attagtgtt    | taagcaaaaag | atattagcag  | ctttgactgc  | agcattagca | attaggraaa | 1620 |
| aaaaaaaaanwa | aaaactcgag  | ggggggccccg | gttaccacat  | tcgccct    |            | 1667 |

<210> 31  
 <211> 1408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1385)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1395)  
 <223> n equals a,t,g, or c

<400> 31

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| tagatgggtca | gctttctgta | gcagtgcaga  | ccctacattt | caaatgtgga | tagcaccttt | 120 |
| gcggggaaac  | atcacttggc | acatctgcac  | tcttttttga | cacagggtct | cactctgttg | 180 |
| cccaggctag  | agtgcattgc | acgatcttag  | ctcactgcaa | cctccacctc | ccaagttaa  | 240 |
| gcgattcttc  | tgccctcagc | tccctgagcag | ctgggatcac | agacatgcgc | taccatgccc | 300 |
| agctaatttt  | ttgtattttt | tgktgtttt   | ttttgtttk  | taagtagaga | cgggctttca | 360 |
| ccacgttggs  | caggcaggtc | tgaactcct   | gamctcaggt | gatccacca  | catctgcgtt | 420 |

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| coaataatctt | tctcaacata  | atgatagccg | taattaatat | tttccagtac  | atTTTTtatgc | 480  |
| ctttacacac  | gagagtggta  | gacagacaca | aaccagatc  | tgtctgactc  | caaagcccgt  | 540  |
| ttgtcatcat  | tcctttttacg | gtatcctata | gtggtatcct | ttacagaaag  | acagcttttta | 600  |
| ccaacaaaag  | acttaacttc  | ccaggatgcc | agaaggacaa | agcgggattg  | cttttaagra  | 660  |
| graagtattc  | aagamcttat  | tttataaatg | agattagata | gggaaaggca  | atTTtatcttt | 720  |
| attaaaaact  | gaaaaggcca  | gcatagggaa | ggaggtcctt | cggtggtctt  | tttcagggaa  | 780  |
| atacttcagt  | tgctttttatt | agaaacagat | agtacctaag | gttttgagggt | aggwacagct  | 840  |
| taaggcatgc  | taatgkcat   | gggtccttcc | atagtcattt | tkgtattttg  | gttwacattt  | 900  |
| gagcaatagg  | cagcccttca  | ctgctgctgg | aytcattcct | gccaytatta  | cagggtgacag | 960  |
| aggagacagg  | aggatatgtct | tttctatttt | tawacatgct | ttatatTTtaa | cacaagctct  | 1020 |
| tgggtatctt  | agataaacag  | aagttgccta | gcactccttt | tagtgcattg  | aaccctTTtaa | 1080 |
| catttaagca  | aaataataaa  | cagtcttttg | aggttcctta | acaatgaaac  | gtgttcgagt  | 1140 |
| ggcagcagcg  | gaatccatgc  | ytcttctcct | ggagtgtgca | akagtccgtg  | gtcctgagta  | 1200 |
| tctcacacag  | atgtggcatt  | ttatgtgtga | tgctctaatt | aaggccattg  | gtacagaacc  | 1260 |
| agattcagac  | gtcctctcag  | aaataatgca | ttcttttgca | aagggtgaata | tttttctctt  | 1320 |
| aaaaaatatg  | tataagggtg  | tatgttcatt | tattagtctt | gctaaaaaaa  | aaaaaaaaaa  | 1380 |
| acttngaggg  | ggggnccggt  | acccaatt   |            |             |             | 1408 |

&lt;210&gt; 32

&lt;211&gt; 3186

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (666)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (682)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3181)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3184)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 32

|             |            |            |            |            |            |     |
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| gggagggtcga | gaagccaata | agtngttttt | cattgaatcc | tgcattgcac | tctttgtttc | 60  |
| cttcatcatc  | aatgtctttg | ttgtctcagt | stttgctgaa | gyrttttttg | ggraaaccac | 120 |
| cgagcagggtg | gttgaagtct | gtacaaatac | cagcagtcct | catgctggcc | tccttcctaa | 180 |
| agataactcg  | acactggctg | tggacatcta | caaagggggt | gttgtgctgg | gatgttactt | 240 |
| tgggcctgct  | gcactctaca | tttgggcagt | ggggatcctg | gctgcaggac | agagctccac | 300 |
| catgacagga  | acctattctg | gccagtttgt | catggaggga | ttcctgaacc | taaagtggtc | 360 |
| acgctttgcc  | cgagtgggtc | tgactcgctc | tattgccatc | atccccactc | tgcttgttgc | 420 |
| tgtcttccaa  | gatgtagagc | atctaacagg | gatgaatgac | tttytgaatg | ttctacagag | 480 |



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<211> 971

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (957)

<223> n equals a,t,g, or c

<220>  
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<210> 34  
 <211> 1792  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1767)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1768)  
 <223> n equals a,t,g, or c

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 ccgtgtcttt caaaaaacat ttctgttttt tgttttggtt tggtcagtc attgcataag 540  
 tgacaagttt ggggtgcttg ggcacgtatg tatgaagcgg gagggggatg asaattgcct 600  
 gtccttcagt argctgtaaa agtaatttac atgtaagtaa aaagggaaaa tagaatagat 660  
 gccaaagtca tttattcagt ccttagtttt cttatgtggc attactgcat ctgctagtta 720  
 gtgagaaagc accctcagct tttactgtc cctccctgc ctgccaacac acttgatgtg 780  
 tgcaaacagc cctcaagtat ctgtcagatg acctatataa ggtattgaat aaggtattct 840  
 tgctagttta gaaatggact ggataaaact tacttggttg tcattatttt atctcatttg 900  
 tccgtttaca tgccctatgt taagataatt atattgccac taataatcaa gatgctaaat 960  
 gagtattaca actggctaatt atcatttttt atatacaagg gtatgtgtat atttggaaatt 1020

|            |             |             |            |             |            |      |
|------------|-------------|-------------|------------|-------------|------------|------|
| grtatgagaa | actcatttgt  | accattttga  | gtgatattgc | acaacaaaca  | cagataycta | 1080 |
| cagactccgt | tttcaatttc  | tctgtttctt  | tatgataatg | atctttgtag  | attggttatt | 1140 |
| tctgtacttt | atctgtaata  | aactttgtag  | atcctgtgaa | ccattacttt  | gcctaaatca | 1200 |
| cttgagactt | gagtccttaa  | taacaaagca  | tcaatattca | ctaaagtcaa  | tctcttttga | 1260 |
| gtttctgtga | cttggctaga  | agctcttgac  | actaagggat | tagtggtaat  | tttccctggg | 1320 |
| gggtgtccac | tagggcatta  | ctgtataatg  | acttgatggt | gccacataga  | cttcaagata | 1380 |
| tataataatt | tgaggatttt  | gttgattggc  | ctatgtttta | ttgcatagt   | tgaaacgtgt | 1440 |
| aaagcttggg | taacctgtat  | atagatagct  | tattgttgac | tagttatagt  | gtatttaggg | 1500 |
| ttgcctgtaa | tatttaagct  | tctttactga  | tgtgtgtgct | ggttaggaaca | tataattttt | 1560 |
| gtacattata | tttactgaga  | tgttgccctt  | tttattttac | aaatactttg  | gaattccaat | 1620 |
| gtgttttttg | cttcctgtgag | gatttaatttg | gaaagggttt | taatgacatt  | ccactgattt | 1680 |
| cagattttgc | ttgagattga  | cttcaataaa  | ttgtcctgta | tgttccaaaa  | aaaaattaaa | 1740 |
| aaactcgagg | ggggcccggt  | acccaanncg  | ccggatatga | tcgtaaacaa  | tc         | 1792 |

&lt;210&gt; 35

&lt;211&gt; 896

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (870)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (877)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 35

|              |            |            |            |            |            |     |
|--------------|------------|------------|------------|------------|------------|-----|
| agttgnanac   | aacaggacct | gagtccttgg | gcagcaccag | taggttgccc | cytgcytcyt | 60  |
| gccagcytca   | cytgccacyt | tytgccccty | tcgggatgcc | ttcgcagaca | gagytyttcg | 120 |
| ctgcctgtgg   | tggccaytct | ttgcttttgg | ttytcttgcc | ccttggcctc | cctttttgtc | 180 |
| ccggggcagc   | cttgtgtgac | ctgccttttt | ccctcccttc | ctttccagga | caagcacgcc | 240 |
| gaggagggtg   | ggaaaaacaa | ggagctgaag | gaagaggcct | ccaggtaaag | cctagaggcc | 300 |
| aaagaacttt   | ccaggtcagc | cggacagctc | cagcagctcc | acgttccagg | cagcctcgmc | 360 |
| cgccggctgc   | gctcccagca | ctgggggttg | gggggagggg | ggtggccaag | gggcgtttcc | 420 |
| tctgcttttg   | gtgtttgtac | atgttaagaa | ttgaccagt  | aagccatcct | atttgtttcc | 480 |
| ggggaacaat   | gacgggggtg | garaggggag | aggagagagt | ttgggaaagg | gagatggaga | 540 |
| agaactcaag   | gacattgcaa | ccctgcccg  | cgcagatctg | attttcacat | ctctacctgg | 600 |
| acattgagcc   | tcccaggcac | catgttgagg | agagatgaaa | accaggggcg | tagaacttca | 660 |
| gggtgaagga   | cagagtcctg | ggtggggcag | cggctgcagg | gcgcaccaga | gaaccagcc  | 720 |
| agaggggggtg  | tgagtaccag | tggtgttget | tccaccctgc | agcagggtgg | atgaggtctg | 780 |
| tgtgtgtgtg   | tgaaccatca | ttttttgatc | atcatgacca | atgaacatt  | gaaaaaaaaa | 840 |
| aaaaaaaaactg | gagggggggc | cgtacccaan | tcgcognata | gtgatcgtaa | acaate     | 896 |

<210> 36  
 <211> 912  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
 tcgacccacg cgtccggtca gccagtcgca tccagccatg acagccttct gctccctgct 60  
 cctgcaagcg cagagcctcc taccaggagc catggcagcc ccccaggaca gcctcagacc 120  
 aggggaggaa gacgaaggga tgcagctgct acagacaaag gactccatgg ccaagggagc 180  
 tagggccggg gccakccgcg gcagggctcg ctgggggtctg gcttacacgc tgctgcacaa 240  
 cccaaccctg caggtcttcc gcaagacggc cctgttgggt gccaatgggtg cccagccctg 300  
 arggcaggga akgtcaàccc acctgcccac ctgtgctgag gcatgttctt gcctaccatc 360  
 ctctctccctc cccggctctc ctcccagcat cacaccagcc atgcagccag caggtcctcc 420  
 ggatcacagt gggtkgtgg aggtctgtct gcaactgggag cctcargarg gctctgctcc 480  
 acccacttgg ctatgggaga gccagcaggg gttctggaga aaaaaactgg tgggttaggg 540  
 ccttgggtcca ggagccagtt gagccagggc agccacatcc aggcgtctcc ctaccctggc 600  
 tctgccatca gccttgaagg gctcagatga agccttctct ggaaccactc cagcccagct 660  
 ccacctcagc cttggccttc acgctgtgga agcagccaag gcaattctct accccytcag 720  
 cgccacggac ctytytgggg agtggccgga aagctcccs gcttytggcc tgcagggcag 780  
 cccaagtcat gactcagacc aggtcccaca ctgagctgcc cacactcgag agccagatat 840  
 tttttagtgg tttatkcctt tggctattat gaaagagggt agtgtgttcc ctgcaataaa 900  
 cttgttctctg ag 912

<210> 37  
 <211> 1382  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (787)  
 <223> n equals a,t,g, or c

<400> 37  
 aattcggcac gagcggaggc gagggaaact ragggcgaaa gttgtgtgtc gtgttggcag 60  
 gagggcctag aagggaagaa ctgtctagtg ggacaatgtc atattataaa tttggaatgc 120  
 tgaatagaaa attatagatt ttgatattga aggaaatgaa gcgaagcyta aatgaaaatt 180  
 cagctcgaag tacagcaggc tgtttgcctg ttccgttgtt caatcagaaa aagaggaaca 240  
 gacagccatt aacttctaatt ccacttaaag atgattcagg tatcagtacc ccttctgaca 300  
 attatgattt tctctctcta cctacagatt gggcctggga agctgtgaat ccagagttkg 360  
 ctctgttaat gaaaacagtg gacaccgggc aaataccaca ttcagtttct cgtcctotga 420  
 gaagtcaaga ttctgtcttt aactctattc aatcaaatac tggaagaagc cagggtgggt 480  
 ggagctacag agatggtaac aaaaatacca gcttgaaaac ttggrataaa aatgatttta 540  
 agcctcaatg taaacgaaca aacttagtgg caaatgatgg aaaaaattct tgtccaatga 600  
 gttcgggagc tcaacaacaa aaacaattaa gaacacctga acctcctaac ttatctcgca 660  
 acaaagaaac cgagctactc agacaaacac attcatcaaa aatatctggc tgcacaatga 720  
 gagggctaga caaaaacagt gcactacaga cacttaagcc caattttcaa caaaatcaat 780  
 ataaganaca aatgttggat gatattccag aagacaacac cctgaaggaa acctcattgt 840  
 atcagttaca gtttaaggaa aaagctagtt cttaagaat tatttctgca gttattgaaa 900  
 gcatgaagta ttggcgtgaa catgcacaga aaactgtact tctttttgaa gtattagctg 960  
 ttcttgattc agctgttaca cctggcccat attattcgaa gacttttctt atgagggatg 1020  
 ggaaaaatac tctgcttgtg gttctttatg aaatcgatcg tgaacttccg agactgatta 1080  
 gaggcagagt tcatagatgt gttggcaact atgaccagaa aaagaacatt ttccaatgtg 1140  
 tttctgtcag acggcgctct gtttctgagc aaaaaacttt ccaggcattt gtcaaaattg 1200  
 cagagtgtga gatgcagtat tatattaatg tgatgaatga aacttaagta gtgataaaag 1260  
 gaagttagtc ataaattata gcagttttct gttattgctt aatttaccat ctccatagtt 1320  
 ttatagctac tattgtattt cacttggtga attaaagtat ttgaattctt ttaaaaaaaa 1380

aa

1382

&lt;210&gt; 38

&lt;211&gt; 872

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 38

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gggctacttc aaagccctgg gccttatttc ttcaggtaaa aaaatataaa gtcagatctc      60
atcccggctg gccatgctgt tagacccttt catccttctc ttctgcctct tctcaacagc     120
tgcccagtcg tgtttggat tcatatacat acagttctaa tactgatgta tttaccctca     180
taagccactc aaccagaat cttatttgaa ttataatcca gaaacatcag gtgacgtgtg     240
agactactgt atgagaaaga gacagtttaa gggtcagtcc aatggaaaaa agagttctca     300
gagctttctt tagcttattc tcatcaaaga gctttctctg cagaaggaac ctactgggtc     360
ctcctttcca gtccagaaa tccctgacct gagtggccta atcctgctag cacctctctc     420
tcgcactctg gtgccaaatg actccaggaa ctgggccatg atgtgggtgg aatgacctta     480
ccttgagcat gtcactcatg cattgaacaa cagctaagag cagagcttag agcttagagc     540
tgggccctgt aaggtgagag gaatcacatc ctgcagaagt ctgtcctgag aagcaggtac     600
tcctgtcaca gcagagacac agtggatacc tgagtaacaa taatacaaga caggacgtgg     660
gmacagcaaa agatttgggt gtcagaagar gccgagaaca cttycaggca ggaacattca     720
rarttgttct tggaggaart aggcmtsaag gctgggcagg atttcmcggg gcagagatgg     780
agcaagcaat tgaaatgaaa gccatggcat gggaaaagga gcaactggcca caggagatgc     840
aacgttgtga tgcaaggcca ctgtggagcc at                                     872

```

&lt;210&gt; 39

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (794)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (806)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (810)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 39

```

ggcagaggct caccacagca gagattgagg gggaaccgtg atgaaatttt taagtattct      60
gcttgatgat aataattttt ctcttatgtt aatgttgggt cggtttgggt gtttagcttt     120
tgaaaggagt atgaaaatgc ggaatggggc tttggggctt gaggaggtgt gatctctagt     180
gttttaaaaa ttttaattgca caaatagaaa taattcacc acattattga accccactaa     240
agcatatcct ttttgtccat attcctttcc tgctgccttc gtgtgtacca ttattactca     300
gttgtgattt gagctcgttc cacttaaagt cattcataga tacttttgcg tcgtgttkga     360
atattttattg aatttctatt ctgtgtttta ctttaattact ttattatgga acctttacac     420
aggtctgtgt tacttgttct ttgaaaagtc ttatgttgac caccatcact gagcatatag     480
ctttttcctt atttccttgg gataattacc cgaagtggaa ataccgaatc aaacttctgt     540
tttctttctt tggcactatt atataaattg ttttccaaac aaggcatgtt tacaatagac     600
atttttcaaa atctgggtat ttgtcctatt ttgtctctct tatgcagaat tcagcggggg     660

```

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| gccaaagtcgt | tttctgtgtg | ggttgagaga | caggctgtgc | agccactgt  | tgcataaggac | 720 |
| taactactac  | aaatcatgct | gagaccgagc | tatttttgc  | gcttagargc | tttgcagcct  | 780 |
| tgagtaagtt  | tcgnatctg  | gaaacnttgn | aa         |            |             | 812 |

&lt;210&gt; 40

&lt;211&gt; 1515

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 40

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| aattcggcac  | gagggaaatt  | caagcacttt  | tcctaaaaga  | agggggaatg | gatgctgaaa | 60   |
| caacacgtnt  | cccacaaagg  | gagcagacac  | tgggcttgtg  | aagctgcccc | ataccttccc | 120  |
| cacagaactg  | gggtccggcc  | tccttgacat  | gcagatttcc  | acccagaaga | cagagaagga | 180  |
| gccagtggtc  | atggaatggg  | ctgggggtcaa | agaactgggtg | cctgggagct | gagggagcca | 240  |
| ccgtttcagc  | ctggccagcc  | ctctggaccc  | cgagggttga  | ccctactgtg | acacacctac | 300  |
| catgoggaca  | ctcttcaacc  | tcctctggct  | tgccctggcc  | tcagccctg  | ttcacactac | 360  |
| cctgtcaaaag | tcagatgcca  | aaaaagccgc  | ctcaaagacg  | ctgctggaga | agagtcagtt | 420  |
| ttcagataag  | coggtgcaag  | accggggttt  | ggtgggtgacg | gacctcaaag | ctgagagtgt | 480  |
| ggttcttgag  | catcgcagct  | actgctcggc  | aaaggcccg   | gacagacact | ttgctgggga | 540  |
| tgtactgggc  | taatgtcactc | catggaacag  | ccatggctac  | gatgtcacca | aggtctttgg | 600  |
| gagcaagttc  | acacagatct  | caccctgtctg | gctgcagctg  | aagagacgtg | gccgtgagat | 660  |
| gtttgaggtc  | acgggcctcc  | acgacgtgga  | ccaaggggtg  | atgcgagctg | tcaggaagca | 720  |
| tgccaagggc  | ctgcacatag  | tgccctcggc  | cctgttttag  | gactggactt | acgatgattt | 780  |
| ccggaacgtc  | ttagacagtg  | aggatgagat  | agaggagctg  | agcaagaccg | tggtccaggt | 840  |
| ggcaaagaac  | cagcatttctg | atggcttctg  | ggtggagggtc | tggaaccagc | tgctaagcca | 900  |
| gaagcgcggtg | accgaccagc  | tgggcatgtt  | caagcacaag  | gagtttgagc | agctggcccc | 960  |
| cgtgctggat  | ggtttcagcc  | tcatgacctg  | cgactactct  | acagcgcatc | agcctggccc | 1020 |
| taatgcaccc  | ctgtccctggg | ttcagacctg  | cgtccagggtc | ctggaccoga | agtcacaagt | 1080 |
| gcgaagcaaa  | atcctcctgg  | ggctcaactt  | ctatgggtatg | gactacgcga | cctccaagga | 1140 |
| tgcccggtgag | cctgtttgtcg | gggccaggta  | catccagaca  | ctgaaggacc | acaggccccg | 1200 |
| gatggtgtgg  | gacagccagg  | yctcagagca  | cttcttctgag | tacaagaaga | gccgcagtgg | 1260 |
| gaggcacgtc  | gtcttctacc  | caaccttgaa  | gtccctgcag  | gtgcggctgg | agctggcccc | 1320 |
| ggagctgggc  | gttgggggtct | ctatctggga  | gctggggccag | ggcctggact | acttctacga | 1380 |
| cctgctctag  | gtgggcattg  | cggcctccgc  | ggtggacgtg  | ttcttttcta | agccatggag | 1440 |
| tgagttagca  | ggtgtgaaat  | acaggccttc  | actccgttaa  | aaaaaaaaaa | aaaaaaaaaa | 1500 |
| aaaaaaaaaa  | aaaaaa      |             |             |            |            | 1515 |

&lt;210&gt; 41

&lt;211&gt; 704

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 41

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aagatgggtg | cgcccagagc | ttcgctctat | gtgctcccc  | tgagagaggc | gtttccatca | 60  |
| accagttttg | caaggagttc | aatgagagga | caaaggacat | caaggaaggc | attcctctgc | 120 |
| ctaccaagat | tttagtgaag | cctgacagga | catttgaaat | taagattgga | cagccactg  | 180 |
| tttctactt  | cctgaaggca | gcagctggga | ttgaaaagg  | ggcccggcaa | acagggaaag | 240 |
| aggtggcagg | cctggtgacc | ttgaagcatg | tgtatgagat | tgcccgcatc | aaagctcagg | 300 |
| atgaggcatt | tgccctgcag | gatgtacccc | tgctgtctgt | tgcccgctcc | atcatcgggt | 360 |
| ctgcccgttc | tctgggcatt | cgcgtgggtg | aggacctcag | ttcagaagag | cttgacgctt | 420 |
| tccagaagga | acgagccatc | ttcctggctg | ctcagaagga | ggcagatttg | gctgcccagg | 480 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aagaagctgc | caagaagtga | cccttgcccc | accaactccc | agatttcaaa | ggaggtagtt | 540 |
| gcaaaagctg | tgcccaaggg | gaggaaggag | gtcacaccaa | tatgatgatg | gttttcatga | 600 |
| ctttgaatga | tatatttttg | tacatctagc | tgtatcgagg | catcaggcct | gaataaacat | 660 |
| cctttcttaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaa       |            | 704 |

<210> 42  
 <211> 1094  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (196)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (226)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (302)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (596)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (952)  
 <223> n equals a,t,g, or c

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 42    |             |             |             |             |            |      |
| ggcagctttc  | ttacaaaccc  | atcctttctga | aatgtttgctt | caaattcacc  | ctctgctccc | 60   |
| cagtcccact  | attccacaca  | tactgttact  | gtttctttat  | cctactttct  | caattttgga | 120  |
| acatagttgc  | agttactgca  | ttgaatacct  | gtgggtttgc  | ctgttggtct  | gtctgtctct | 180  |
| gtggttcttg  | taatantgga  | tcccagagat  | aaaatggaca  | gttgtnatgc  | acagttaatt | 240  |
| cagaaactag  | accttacttg  | ctgtgtgaaa  | taccaactaa  | attctcagtg  | aactcagctg | 300  |
| anctttatct  | ccttttgttt  | ccccaattta  | taatttcagt  | tcaggcccag  | aaagatggaa | 360  |
| tcccagctaa  | gaaatacaag  | ttacaccctg  | tactagcagc  | ccatgtgtgc  | atgttcttta | 420  |
| agtgtctctg  | cagctatgtc  | atttatattg  | atttcctgtg  | attattataa  | gcaaagcaaa | 480  |
| tttgaggaaa  | aaaaccata   | ataccacacc  | tcattttttt  | caagtaatag  | ggtcataagt | 540  |
| ctcatyctyc  | atataatatg  | ttgagtatgc  | agtatattat  | gtgttaggct  | ctgganaggc | 600  |
| agaggtaga   | tcatgtwaca  | gatcatatck  | gattaggcag  | ataaacagta  | ttttaacctt | 660  |
| ttccttatta  | tatgtaactt  | gctttcaggt  | tttttaatgt  | tactattatg  | tctttaatat | 720  |
| attatcttta  | tttgtaactt  | tgtatacaga  | gtgattttcc  | ttttttaaaa  | aaaattgtgt | 780  |
| ctttaggatg  | gattccaaaag | atgtggaatc  | agtaggttta  | aggaatatgg  | atattttggc | 840  |
| tggcaagggtg | gctcacacct  | gtaatcccag  | cactttggga  | ggctgagggtg | ggtggatcac | 900  |
| ctgaagtcag  | gagttcgaga  | ccagcctgac  | caacatggcg  | aaacctgtt   | tntactaaag | 960  |
| acacacwaa   | aatttgcocag | tgggtggggc  | atgtgcttgt  | agtcccactt  | agctactcga | 1020 |
| gaggctgagg  | caggagaatc  | gcttgaacct  | gggaggcaga  | ggttgcagtg  | aggcaagatg | 1080 |
| gcacctctac  | actc        |             |             |             |            | 1094 |

<210> 43  
 <211> 1821  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1801)  
 <223> n equals a,t,g, or c

<400> 43

|             |            |             |             |             |            |      |
|-------------|------------|-------------|-------------|-------------|------------|------|
| tggcttaggc  | catcaccctt | cccttggctg  | gaactactgg  | acagaccctt  | ttgagatgtg | 60   |
| cctgtggtgc  | tgtggagatg | tgtgtagtgg  | tcttagctct  | ttgttgagct  | tgtgtgtgtg | 120  |
| ttgtgtagtc  | ttagctgtat | gctgaaattg  | ggcgtgtgtt  | ggagggcttc  | ttagctcttt | 180  |
| ggtgagattg  | tatttctatg | tgtttgtatc  | asctgaatgt  | tgctggaaat  | aaaaccttgg | 240  |
| tttgtmaagg  | ctcytttttg | tgggaagtaa  | gtaggggaaa  | aggtctttga  | gggttcctag | 300  |
| gctcctttgt  | acaacaggaa | aatgcctcaa  | agccttgctt  | cccagcaacc  | tggggctggt | 360  |
| tcccagtgcc  | tggtcctgcc | ccttcctggg  | tcttatctca  | aggcagagct  | tctgaatttc | 420  |
| aggccttcat  | tccagagccc | tcttgrggcc  | aggccttcct  | ttgctggagg  | aaggtagaca | 480  |
| gggtgaagct  | gatgctgtac | ttgggggatc  | tccttggcct  | gttccaccaa  | gtgagagaag | 540  |
| gtacttactc  | ttgtacctcc | tgttcagcca  | ggtgcattaa  | cagacctccc  | tacagctgta | 600  |
| ggaactactg  | tcccagagct | gaggcaaggg  | gatttctcag  | gtcatttgga  | gaacaagtgc | 660  |
| tttagtagta  | gtttaaagta | gttaactgcta | ctgtatttag  | tgggggtggaa | ttcagaagaa | 720  |
| atttgaagac  | cagatcatgg | gtgggtctgca | tgtgaatgaa  | caggaatgag  | ccggacagcc | 780  |
| tggctgtcat  | tgctttcttc | ctccccatct  | ggaccttctc  | ctgcccttac  | atttttgttt | 840  |
| ctccatctac  | caccatccac | cagtctatct  | attaacttag  | caagaggaca  | agtaaagggc | 900  |
| cctcttggct  | tgattttgct | tctttctttc  | tgtggaggat  | atactaagtg  | cgactttgcc | 960  |
| ctatcttatt  | tggaaatccc | taacagaatt  | gagttttcta  | ttaaggatcc  | aaaaagaaaa | 1020 |
| acaaaatgct  | aatgaagcca | tcagtcaagg  | gtcacatgcc  | aataaacaat  | aaattttcca | 1080 |
| gaagaaatga  | aatccaacta | gacaaataaa  | gtagagctta  | tgaaatgggt  | cagtaaggat | 1140 |
| gagtttgttg  | ttttttgttt | tgttttgttt  | tgktttttta  | aagacggagt  | ctcgctctgt | 1200 |
| cactcaggct  | ggagtgacgt | ggtatgatct  | tggctcactg  | taacctccgc  | ctcccggggt | 1260 |
| caagccatcc  | tctgcctcca | gtctcctgag  | tagctgggat  | tacaggtgcg  | tgccacccat | 1320 |
| cctggctaatt | ttttgtgttt | ttagtagaga  | cagggtttca  | ccatgttggt  | cgggctgggt | 1380 |
| tcaaactcct  | gacctcttga | tccgcctgcc  | ttggcctccc  | aaagtgatgg  | gattacagat | 1440 |
| gtgagccacc  | cgtgccttag | ccaaggatga  | gatttttaaa  | gtatgtttca  | gttctgtgtc | 1500 |
| atggttggaa  | gacagagtga | gaaggatatg  | gaaaagggtca | tggggaagca  | gaggtgatcc | 1560 |
| atggctctgt  | gaatttgagg | tgaatgggtc  | cttattgtct  | aggccacttg  | tgaagaatat | 1620 |
| gagtcagtta  | ttgccagcct | tgggaatttac | ttctctagct  | tacaatggac  | cttttgaact | 1680 |
| ggaaaacacc  | ttgtctgcat | tcacttttaa  | atgtcaaaac  | taatttttat  | aataaatggt | 1740 |
| tattttcaca  | ttgaaaaaaa | aaaaaaattt  | aaaaacycgg  | ggggggcccs  | gwaccccat  | 1800 |
| ngccccaag   | gggggggggt | t           |             |             |            | 1821 |

<210> 44  
 <211> 1024  
 <212> DNA  
 <213> Homo sapiens

<400> 44

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggggcacagt | tgaagaagcg | accgagggac | tgggagtcgt | tagtgaggat | gacgcggcat | 60  |
| ggcaagaact | gcaccgcagg | gccgtctaca | cctaccacga | gaagaagaag | gacacagcgg | 120 |
| cctcgggcta | tgggacccag | aacattcgac | tgagccggga | tgccgtgaag | gacttcgact | 180 |
| gctgttgtct | ctccctgcag | ccttgccacg | atcctgttgt | caccccagat | ggctacctgt | 240 |
| atgagcgtga | ggccatcctg | gagtacatcc | tgcaccagaa | gaaggagatt | gcccggcaga | 300 |
| tgaaggccta | cgagaagcag | cggggcaccc | ggcgcgagga | gcagaaggag | cttcagcggg | 360 |
| cggcctcgca | ggaccatgtg | cggggccttc | tggagaagga | gtcggctatc | gtgagccggc | 420 |
| ccctcaaccc | tttcacagcc | aaggccctct | cgggcaccag | cccagatgat | gtccaacctg | 480 |



|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| ggccccagtgt | gggtcctcca  | agtaaggaca | aggacaaagt  | gctgcccagc  | ttctggatcc | 540  |
| cgtegetgac  | gccccgaagcc | aaggccacca | agctggagaa  | gccgtcccgc  | acggtgacct | 600  |
| gccccatgtc  | agggaagccc  | ctgcgcattg | cggacctgac  | gcccgtgcac  | ttcacaccgc | 660  |
| tagacagctc  | cgtggaccgc  | gtggggctca | tcacccgcag  | cgagcgctac  | gtgtgtgccc | 720  |
| tgaccgcga   | cagcctgagc  | aacgccacco | cctgcgctgt  | gctgcggccc  | tctggggctg | 780  |
| tggtcacccct | cgaatgcgtg  | gagaagctga | ttcggaagga  | catggtggac  | cctgtgactg | 840  |
| gagacaaact  | cacagaccgc  | gacatcatcg | tgtgcagcgc  | gggcgggtacc | gsttcgcggg | 900  |
| ctccggagtg  | aagctgcaag  | cggagaaatc | acggccgggtg | atgcaggcct  | gagtgtgtgc | 960  |
| gggagaccaa  | ataaacccggc | ttgggtgcgc | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | 1020 |
| aaaa        |             |            |             |             |            | 1024 |

&lt;210&gt; 45

&lt;211&gt; 983

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (976)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 45

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| cgacacggct  | gcgagaagac | gacagaaggg | cccgaccgcg  | agccgtccag | gtctcagtgc  | 60  |
| tgtgcccccc  | ccagagccta | gaggatgttt | catgggatcc  | cagccacgcc | gggcatagga  | 120 |
| gccccctggga | acaagccgga | gctgtatgag | gaagtgaagt  | tgtacaagaa | cgcccgggag  | 180 |
| agggagaagt  | acgacaacat | ggcagagctg | tttgcgggtg  | tgaagacaat | gcaagccctg  | 240 |
| gagaaggcct  | acatcaagga | ctgtgtctcc | cccagcgagt  | acactgcagc | ctgctcccgg  | 300 |
| ctcctggctc  | aatacaaagc | tgccttcagg | cagggtccagg | gctcagaaat | cagctctatt  | 360 |
| gacgaattct  | gccgcaagtt | ccgcctggac | tgcccgcctg  | ccatggagcg | gatcaaggag  | 420 |
| gaccggccca  | tcaccatcaa | ggacgacaag | ggcaacctca  | accgctgcac | cgcagacgtg  | 480 |
| gtctcgtctc  | tcatcacggt | catggacaag | ctgcgcctgg  | agatccgcgc | catggatgag  | 540 |
| atccagcccc  | acctgcgaga | gctgatggag | accatgcacc  | gcatgagcca | cctcccaccc  | 600 |
| gacttttgagg | gccgccagac | ggtcagccag | tggctgcaga  | ccctgagcgg | catgtcggcg  | 660 |
| tcagatgagc  | tggaagactc | acaggtgcgt | cagatgctgt  | tcgacctgga | gtcagcctac  | 720 |
| aacgccttca  | accgcttctc | gcatgcctga | gcccggggca  | ctagcccttg | cacagaaggg  | 780 |
| cagagtctga  | ggcgatggct | cctgggtccc | tgtccgccac  | acaggccgtg | gtcatccaca  | 840 |
| caactcactg  | tctgcagctg | cctgtctggt | gtctgtcttt  | ggtgtcagaa | cttttggggc  | 900 |
| gggccccctc  | ccacaataaa | gatgctctcc | gaccttcaaa  | aaaaaaaaaa | aaaaaaaaagr | 960 |
| kgsggceggg  | ccccantccc | ccc        |             |            |             | 983 |

&lt;210&gt; 46

&lt;211&gt; 2421

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 46

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| ccggctgate  | gctgcgcctc | cgccaatata | atagagccak | ccactaccag | cagcctggcc  | 60  |
| ctcttctctc  | ttctccagag | agaccaatcc | agccgaactc | ggggtttgcc | tgaggagaag  | 120 |
| gaggaagtga  | ccatggacac | aagtgaatac | agacctgaaa | atgatgttcc | agaacctccc  | 180 |
| atgcctattg  | cagaccaagt | cagcaatgat | gaccgcccgg | agggcagtg  | tgaagatgag  | 240 |
| gagaagaaag  | agagctcgct | gcccataatc | ttcaagagga | agatctccgt | tgtctcagct  | 300 |
| accaaggggg  | tgccagctgg | aaacagtgc  | acagaggggg | gccagcctgg | tcggaaacga  | 360 |
| cgctgggggag | ccagcacagc | caccacacag | aagaaacctt | ccatcagrat | caccactgaa  | 420 |
| tcactaaaga  | gcctcatccc | cgacatcaaa | cccctggcgg | ggcaggaggc | tgtttgtggat | 480 |
| cttcatgctg  | atgactctcg | catctctgag | gatgagacag | agcgtaatgg | cgatgatggg  | 540 |
| acccatgaca  | aggggctgaa | aatatgcggg | acagtcactc | aggtagtacc | tcagaggggc  | 600 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| caggagaatg  | ggcagagggg  | agaagaggaa  | gaagagaagg | aacctgaagc  | agaacctcct  | 660  |
| gtacctcccc  | aggtgtcagt  | agaggtggcc  | ttgccccac  | ctgcagagca  | tgaagtaaag  | 720  |
| aaagtgactt  | taggagatac  | cttaactcga  | cgttccatta | gccagcagaa  | gtccggagtt  | 780  |
| tccattacca  | ttgatgacc   | agtccgaact  | gcccaggtgc | cctccccacc  | ccggggcaag  | 840  |
| attagcaaca  | ttgtccatat  | ctccaatttg  | gtccgtcctt | tcactttagg  | ccagctaaaag | 900  |
| gagttgtttg  | ggcgacacag  | aaccttgggtg | gaagaggcct | tctggattga  | caagatcaaa  | 960  |
| tctcattgct  | ttgtaacgta  | ctcaacagta  | gaggaagctg | ttgccaccgc  | cacagctctg  | 1020 |
| cacgggggtca | aatggcccca  | gtccaatccc  | aaattccttt | gtgctgacta  | tgccgagcaa  | 1080 |
| gatgagctgg  | attatcacccg | aggcctcttg  | gtggaccgtc | cctctgaaac  | taagacagag  | 1140 |
| gagcagggaa  | taccacggcg  | cctgcacccc  | ccacccccac | ccccgggtcca | gccaccacag  | 1200 |
| cacccccggg  | cagagcagcg  | ggagcaggaa  | cgggcagctg | gggaacagtg  | ggcagaacgg  | 1260 |
| gaacgggaaa  | tggagcggcg  | ggagcggact  | cgatcagagc | gtgaatggga  | tccggacaaa  | 1320 |
| gttcgagaag  | ggccccgttc  | ccgatcaagg  | tcccgttrac | gccgccgcaa  | ggaacgtgcg  | 1380 |
| aagtctaaag  | aaaagaagag  | tgagaagaaa  | gagaaagccc | aggaggaacc  | acctgccaag  | 1440 |
| ctgctggatg  | acctttttccg | aaagaccaag  | gcagctccct | gcattctattg | gctcccactg  | 1500 |
| actgacagcc  | agatcggttca | gaaagaggca  | gagcgggccc | aacggggcca  | ggagcgggag  | 1560 |
| aagcggcgaa  | aggagcaaga  | agaagaagag  | caaaaggagc | gggagaagga  | agccgagcgg  | 1620 |
| gaacggaacc  | gacagctgga  | gogagagaaa  | cgtcgggagc | acagtcggga  | gagggacagg  | 1680 |
| gagagagaga  | gagaaaagga  | gogggacagg  | ggggaccgag | atcgggatag  | ggaaagggac  | 1740 |
| cgagaacgag  | gcaggggaaa  | ggatcgcagg  | gacaccaagc | gccacagcag  | aagccggagt  | 1800 |
| cggagcacac  | ctgtgcggga  | ccgggggtggg | cgccgctagc | tgggaaaaca  | ctagagctgc  | 1860 |
| aggtaccagc  | cactcggccc  | caggggggtta | tggccacaga | gggataggca  | cagtctccac  | 1920 |
| caccctggag  | ccaagggtct  | ttcacatcac  | ctatccctac | atacatacca  | aatggaaaag  | 1980 |
| tggccatcct  | tttcccccca  | aacacacccc  | cttaacctat | ctcttgggac  | ttagcccgac  | 2040 |
| cctccctctc  | atgtccatt   | aagtctgaga  | ggcaagagct | aggttaggca  | aggaggtggg  | 2100 |
| tggccagaga  | tggggaacag  | ccaggtgccc  | cagtcctctg | atttttctct  | catcctgctt  | 2160 |
| accacctccc  | tgggtactta  | cagccttctc  | ttgggaacag | ccggggccag  | gactgggtca  | 2220 |
| cctatgagct  | gaatcagcat  | ctcctctga   | gtcccagggc | ccctgcagtt  | cccagttctt  | 2280 |
| tctgtcctgc  | agcccttgcc  | tctttccac   | aggttccact | ttatatccac  | cttttccctt  | 2340 |
| tgttcaattt  | ttatttttat  | tttttttatt  | attaaatgat | gtggtctatg  | gaaaaaaaaa  | 2400 |
| taaaaatctg  | acttagtttt  | a           |            |             |             | 2421 |

&lt;210&gt; 47

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 47

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| ctcaaactcc | tgagctgaag | cgatctacct | gcctcagcta | ggattacagg  | tgtgagccac  | 60  |
| cgcacccaac | ctcaataagc | ktatttgata | aaakatatgc | aagctccctt  | tatkcacttt  | 120 |
| tcattcagaa | tgtttagtaa | tttgatttgt | ttttcagatt | ttcagcccaa  | tatatctccy  | 180 |
| tgccactgt  | gtcactgtat | tctacctawa | catcatcacg | tgtttctgct  | attggctgta  | 240 |
| tgatggaaca | ctgcggctca | ttttcctgaa | aactgccgat | agtgcataga  | rtgctgggat  | 300 |
| ggaaaccaga | arctttgaat | tcaagccttg | gttctgcctt | gttttttgctt | gggtggcctt  | 360 |
| gagtcagcca | catacctttt | aaaatctcaa | ttatttagaa | attattccaa  | atcaaaatca  | 420 |
| aatgagaagg | tatatacaaa | agtgttttat | cccacaataa | actattcaag  | agagagcaaa  | 480 |
| ggagaggaca | tttactcaac | acctcctaaa | aggcagccag | tgaaattagg  | cattttattt  | 540 |
| aatcctcctg | gcaactctga | gagtaaagca | ttattaatoc | cattttggct  | gtttaaagaa  | 600 |
| attatttgca | ctagattcca | gctgtagttt | agyttcagaa | aaaaaaatcc  | tgagatgtga  | 660 |
| attcacagct | ttctgggttt | aaagcccaag | ctctatcaca | tcatgctatt  | attgtttacat | 720 |
| tactgctagt | tctatgaaaa | gaaatactaa | tttatgaaat | acatcttata  | caaaaaaaaa  | 780 |
| aaaaaaaaac | tgggaggggg | ggcccgtacc | caaatcgccg | gatagtgatc  | gtaaacaatc  | 840 |

&lt;210&gt; 48

&lt;211&gt; 2432

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2049)

<223> n equals a,t,g, or c

<400> 48

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| ggcacgaggc  | cgggaacgct | gaggaagggc | cgtccccgcc | ttccccggcg | cgccatggag  | 60   |
| ccccggggcg  | ttgcagaagc | cgtggagagc | ggtgaggagg | atgtgattat | ggaagctctg  | 120  |
| cggtcataca  | accaggagca | ctcccagagc | ttcacgtttg | atgatgocca | acaggaggac  | 180  |
| cggaaagagac | tggcggastg | ctggtctcog | tcctggaaca | gggcttgcca | ccctccacc   | 240  |
| gtgtcatctg  | gctgcagagt | gtccgaatcc | tgtcccgga  | ccgcaactgc | ctggaccctg  | 300  |
| tcaccagccg  | ccagagcctg | caggcaytag | cctgytatgy | tgacatctct | gtctctgagg  | 360  |
| ggtccgtccc  | agagtccgca | gacatggatg | ttgtactgga | gtccctcaag | tgctctgca   | 420  |
| acctcgtgct  | cagcagccct | gtggcacaga | tgctggcagc | agaggcccg  | ctagtgggtga | 480  |
| agctcacaga  | gcgtgtgggg | ctgtaccgtg | agaggagctt | ccccacgat  | gtccagttct  | 540  |
| ttgacttgcg  | gtctctcttc | ctgctaaccg | cactccgcac | cgatgtgogc | canagctgtt  | 600  |
| tcaggagctg  | aaaggagtg  | gctgtctaac | tgacacactg | gagctgacgc | tgggggtgac  | 660  |
| tcctgaagg   | aacccccac  | ccacgctcct | tccttcccaa | gagactgagc | gggcatgga   | 720  |
| gacctcaaaa  | gtgctcttca | acatcacctt | ggactccatc | aagggggagg | tggacgagga  | 780  |
| agacgctgcc  | ctttaccgac | acctggggac | ccttctccgg | cactgtgtga | tgatcgctac  | 840  |
| tgctggagac  | cgcacagagg | agttccacgg | ccacgcagta | ascctcctgg | ggaacttgcc  | 900  |
| cctcaagtgt  | ctggatgttc | tcctcacctt | ggagccacat | ggagactcca | cggagttcat  | 960  |
| gggagtgaat  | atggatgtga | ttogtgcctt | cctcatcttc | ctagagaagc | gtttgcacaa  | 1020 |
| gacacacagg  | ctgaaggaga | gtgtagctcc | cgtgctgagc | gtgctgactg | aatgtgccc   | 1080 |
| gatgcaccgc  | ccagccagga | agttcctgaa | ggcccagggt | ctgccccctc | tgccggatgt  | 1140 |
| gaggacacgg  | cctgaggttg | gggagatgct | gcggaacaag | cctgtccgcc | tcatgacaca  | 1200 |
| cctggacaca  | gatgtgaaga | gggtggctgc | cgagttcttg | tttgtcctgt | gctctgagag  | 1260 |
| tgtgccccga  | ttcatcaagt | acacaggcta | tgggaatgct | gctggccttc | tggctgccag  | 1320 |
| gggcctcatg  | gcaggaggcg | gcccaggggc | agtactcaga | ggatgaggac | acagacacag  | 1380 |
| atgagtacaa  | ggaagccaaa | gccagcataa | accctgtgac | cgggagggtg | gaggagaagc  | 1440 |
| cgccaaacct  | tatggagggg | atgacagagg | agcagaagga | gcacgaggcc | atgaagctgg  | 1500 |
| tgaccatgtt  | tgacaagctc | tcagggaaca | gagtcatcca | gccaatgggg | atgagtcctc  | 1560 |
| ggggtcatct  | tacgtccctg | caggatgcca | tgtgcgagac | tatggagcag | cagctctcct  | 1620 |
| cggaccctga  | ctcggacctt | gactgaggat | ggcagctctt | ctgctcccc  | atcaggactg  | 1680 |
| gtgctgcttc  | cagagacttc | cttgggggtt | caacctgggg | aagccacatc | ccactggatc  | 1740 |
| cacaccggcc  | cccacttctc | catcttagaa | acccttctc  | ttgactcccg | ttctgttcat  | 1800 |
| gatttgcctc  | tgggtccagt | tctcatctct | ggactgcaac | ggctctcttg | tgctagaact  | 1860 |
| caggctcagc  | ctcgaattcc | acagacgaag | tactttcttt | tgtctgogcc | aagaggaatg  | 1920 |
| tgttcagaag  | ctgctgcctg | agggcagggc | ctacctgggc | acacagaaga | gcataatggga | 1980 |
| gggcaggggt  | ttgggtgttg | gtgcacacaa | agcaagcacc | atctgggatt | ggcacactgg  | 2040 |
| cagagcmant  | gtkttgggg  | atgtgctgca | cttcccagg  | agaaaacctg | tcagaacttt  | 2100 |
| ccatacagat  | atatcagaac | acaccttcc  | aaggtatgta | tgtctgtgtg | ttcctgtcct  | 2160 |
| gtcttcaactg | agcgcagggc | tggaggcctc | ttagacattc | tccttggtcc | tcgttcagct  | 2220 |
| gcccactgta  | gtatccacag | tgcccaggtt | ctcgtctggt | ttggcaatta | aacctccttc  | 2280 |
| ctactggttt  | agactacact | tacaacaagg | aaaatgcccc | tcgtgtgacc | atagattgag  | 2340 |
| atttatacca  | cataccacac | atagccacag | aaacatcacc | ttgaaataaa | gaagagtttt  | 2400 |
| ggacaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aa         |            |             | 2432 |

<210> 49

<211> 1742

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (35)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (570)  
<223> n equals a,t,g, or c

<400> 49  
gtcctgcagg agctgcacgc ggccgaggtg cgcangaaca aggagcagcg agaagagatg 60  
tcgggctaag ggcccgggsac grgsggcgcc catcctgcga cggaacacgt tcgggttttg 120  
gttttgtttc gttcacctct gtctagatgc aacttttggt cctcctcccc caccocagcc 180  
cccagcttca tgcttctctt ccgcactcag ccgcctgcc ctgtcctcgt ggtgagtcgc 240  
tgaccacggc ttcccctgca ggagccgcg ggcggtgraga cgcggtccct cgggtgcagac 300  
accaggccgg gcgcggctgg gtccccggg ggccctgtga gagaggtggy ggtgaccgtg 360  
gtaaacccag ggcggtggcg tgggacrcg ggtecttacg ctgggctgtc tggtcagcac 420  
gtgcaggtca gggcaggtcc tctgagccgg cgcctctggc cagcaggcga ggctacagta 480  
cctgtctgtc ttccaggggg aaggggctcc ccctgaggga ggggcgacgg gggagggggg 540  
tgatgggtgc tgggaagcct gcktgtcan ccggtgcttg ttgaactggc aggcgggtgg 600  
gtgggggctg cagctttcct taatgtggtt gcacagggtt cctctragac cacctggcgt 660  
gaggtggaca ccctgggcct tccctggaagc ctgcagttgg gggcctgcc tgagtctgct 720  
ggggagtggg cattctctgc cagggaacca tgagcaggct gcattgtcta gaggttgtgg 780  
gcagcatgga cagtecccca ctcagaagt caagagttcc aaagagcctc tggcccaggc 840  
ccctccgtgg gacagccccc ccgcccctcc ccaccagggc ttgacagatg tccctgaaag 900  
accacacctg gagccctttg gactgctggc ccctcctgtg ccctctgcc tgggtggaagc 960  
ggcascacaa gtccctcctca gggagcccca agggggattt tktgggaccg ctgcccacag 1020  
atccagggtg tgggaaggga gcgggtaagg ttcccaagcc agccccaaca cccttcccac 1080  
ttggcaccca gagggggctg tgggtggagg cctgactcca ggccctcctt gccacacccc 1140  
tctgggctga gttccttctt tcccttgga cccagtgctt ggcccttgag gacggtcagc 1200  
tggaggatgg cgggtgggga ggctgtcttt gtaccactgc agcatccccc acttctccac 1260  
ggaagcccca tcccaaagct gctgcctggc cccttgctgt aaagtgtgaa gggggcggtc 1320  
gagttctctt aggaaccaga gccaggggcc tcaacttcca tccctgcggga ggccttggtc 1380  
gggcaactgc agtgtcttcc agagccacac ccagggaacca cgggaggatc ctgaccctg 1440  
cagggtcag gggtcagcag ggacccactg ccccatctcc ctctcccccac caagacagcc 1500  
ccagaaggag cagccagctg ggatgggaac ccaaggctgt ccacatctgg cttttgtggg 1560  
actcagaaag ggaagcagaa ctgagggctg ggatattcct catggtggca gcgctcatag 1620  
cgaaagccta ctgtaatatg caccatctc atccacgtag taaagtgaac ttaaaaattc 1680  
aatcaaatga acaattaaat aaacacctgt gtgtttaaga aaaaaaaaaa aaaaaaactg 1740  
cg 1742

<210> 50  
<211> 1487  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1486)  
<223> n equals a,t,g, or c

<400> 50  
ggcagcagcc tccgcgaact gtggagtcgg cggagggctg gaatcagcgt gggctccagg 60

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| tcgctggcag  | ccgggtggca  | gaactcttcc  | gaggctcctt | gggaagaagc | tacacccgag  | 120  |
| ggagccggat  | gggcctcgaa  | aacctggccc  | gctctgggtc | tgtaccattg | caaggggaac  | 180  |
| cgtaaaactga | gctttttctaa | cgtgggtttc  | tgccaagtac | ttttccagct | gcccccttcc  | 240  |
| ccccagcaca  | caggagagcc  | tctgtgtagc  | cagcgcttga | cagtcgttag | gtagggttga  | 300  |
| ctgtgtaggg  | aggagctcaa  | gatcatgaat  | ggtgtgcaca | ggagaaagcg | gttgcacctt  | 360  |
| tgcaaaacta  | tatacctgct  | gtgggtttgtg | ttttcttttc | tgctgagtaa | tgaagttgta  | 420  |
| agttcacact  | ggcacattct  | cagggctgtg  | cagattattt | gcactttatt | tcataggtgr  | 480  |
| ataagtgcct  | tttagctttc  | tttgatatatt | gagtgtcctt | tgaattgctt | cccatatttt  | 540  |
| tatttcatac  | aaactgaaca  | attgtggccc  | ctctatttta | tttataaagg | ttcagtgtat  | 600  |
| ctttgcctgc  | ctacatcaat  | ctgcaaggga  | gttgcagaaa | gcctcatggt | catcgagccg  | 660  |
| tgagtcacaa  | ccaattttct  | agctgttata  | acaaaaaagt | gtttgctttt | tttcacaagt  | 720  |
| aactttaaaa  | gtgtagttaa  | gaaagaaaac  | attttcaata | aaaagacact | acattaatcc  | 780  |
| tggatgcttg  | caaactctaa  | aatmtattcc  | tcctctagcg | ttgcacagct | ctgtgttgta  | 840  |
| tacacagact  | agctttaaaa  | ttgtgcacat  | accactttac | ctttactttt | atgtatcatt  | 900  |
| ccccgcactt  | ccttactgca  | ggtgtgggca  | agaaaacttt | tcctttaaca | cttttcaaca  | 960  |
| gcgggcataa  | aattctgcag  | ctgaggtcct  | gaagaatgca | gatgggtaca | gtatgtgttg  | 1020 |
| gagctcacag  | tgtgtattga  | ctaacctagt  | tccttttttg | cttttttttg | tattgtcctg  | 1080 |
| ttaaaagtga  | ctcccaggta  | gcaactctct  | tttttaaggg | tgggaacgaa | agggacgtag  | 1140 |
| gaagaataga  | tctagattat  | ttaacagtct  | tcgatagagt | ttgaaagctt | tcttcttcat  | 1200 |
| tcaatttttg  | gcaaaatact  | gcctctgcac  | ttgttcataa | caaaaagatt | agattaataa  | 1260 |
| gtagcttttg  | ttgggtggaaa | ttaccagctc  | tataagtcac | ccttggtggg | tcattggacct | 1320 |
| ctgattagct  | tgggttttgc  | agtctcattg  | ccacatgtat | atgtggagcc | aatggccttt  | 1380 |
| tgggtgctcag | ctgtttacgt  | ctgactcctt  | gacttctttg | gtacagtgat | ggagtcagat  | 1440 |
| ctcattaagt  | gtgattctcc  | atggatataa  | ccagccccaa | aaaaang    |             | 1487 |

<210> 51  
 <211> 1328  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| <400> 51    |             |             |             |            |            |      |
| ggcagcagct  | cgtgcogaat  | tcggcacgag  | agaagatttg  | aagaagccag | atccagcttc | 60   |
| cctgcgggct  | gcttcttgtg  | gggaaggga   | aaagagggaag | gcctgtaaga | actgcacctg | 120  |
| tggccttgcc  | gaagaactgg  | aaaaagagaa  | gtcaaggga   | cagatgagct | cccaacccaa | 180  |
| gtcagcttgt  | ggaaaactgt  | acctgggcca  | tgcttccgc   | tgtgccagct | gccccacct  | 240  |
| tgggatgcc   | gccttcaaac  | ctggggaaaa  | ggtgcttctg  | agtgatagca | atcttcatga | 300  |
| tgcctaggag  | gttcttgaca  | tgggacccat  | ctgctcctcc  | agccaactcc | tgctcctcac | 360  |
| atcccaccat  | ggtggctcct  | cccacctcct  | ctggatttgt  | tcactctgag | atctgtttgc | 420  |
| agagtgggtg  | cttagcagac  | agagtgaagc  | tggctggggg  | gcacagtggg | gtgtagtgtc | 480  |
| gctgtgcatc  | aaaagaccac  | ggtattatgg  | gacctgggtt  | cagaatggga | tgggtttctt | 540  |
| cacctcatgt  | taagagaagg  | gagtgtgtcc  | tgaagaagcc  | cttcttctga | tgttaaaatg | 600  |
| ctgaccagaa  | cgctcttgag  | cccaggcatc  | gttgagcatt  | aacactctgt | gacagagctg | 660  |
| cagaccctcg  | ccttgagtct  | catctcagca  | atgctgccac  | cctcttgtct | ttcagagttg | 720  |
| ttagtttact  | ccattctttg  | tgacacgagt  | caagtggctc  | acaacctcct | cagggcacca | 780  |
| gaggactcac  | tcactgggtg  | ctgtgatgat  | atccagtgtc  | cctctgcccc | cttccatccc | 840  |
| caaccacatt  | tgactgtagc  | attgcatctg  | tgtcctgttg  | tcatttatgt | taaccttcag | 900  |
| gtattaaaact | tgtgcatat   | cttgacatat  | cttgagattc  | tgcattgtct | gtaaagagag | 960  |
| gggatgtgca  | tttgtgtgtg  | atgttgata   | gtcatccacg  | ctcagtttgg | accattggag | 1020 |
| gaacttagtg  | tcacgcacaa  | atggggctat  | tcctacgctt  | agaatagggc | ttgtctgccc | 1080 |
| actttagaag  | agtcacaggt  | tgggtgagcat | ttagagggaa  | gcagggcaga | actctgaacg | 1140 |
| acaatacgtc  | tctctgagca  | gagacccctt  | tgttcttgtt  | atocacccat | atggacttgg | 1200 |
| aatcaatctt  | gocaaatatt  | tggagagatt  | gtgtggattt  | aagagacctg | gatttttata | 1260 |
| ttttaccagt  | aaataaaaagt | tttcattgat  | atctgtcctt  | gaaaaaaaaa | aaaaaaaaaa | 1320 |
| aaactcga    |             |             |             |            |            | 1328 |

<210> 52

<211> 1856  
 <212> DNA  
 <213> Homo sapiens

<400> 52

|             |            |             |             |             |            |      |
|-------------|------------|-------------|-------------|-------------|------------|------|
| gaattcggca  | cgagctctgc | aacattgcaa  | atgaacttgc  | agccgagggg  | tccgctgccc | 60   |
| cctagattaa  | attccccggg | ctgaaactga  | gttgacagatt | tacaatatca  | tattttaaat | 120  |
| tgctgtcttc  | aattaaacca | tttatgacca  | taactaattt  | tcaggatgtc  | gatgcatgct | 180  |
| tttccaggcc  | ttccttcttt | gtacaaaagt  | aaatgtccat  | aaagcgtttc  | acttatatto | 240  |
| ttcaaacatg  | atgctaattt | aaattaatta  | cttctatga   | tatgttatta  | ttcctatgat | 300  |
| tttgccactg  | ttattagttc | tctcaaaaat  | acatctaggg  | aagaggatta  | ttttaagtra | 360  |
| tttgattatc  | tttctatctc | ttttatctat  | ttctcattta  | cttaagaaat  | tcgttccatt | 420  |
| ggttggcatt  | gatacagtaa | atttgtaaat  | gaggagacaa  | tataaaaaat  | ctaaattact | 480  |
| tgtgcttaat  | gactgtagca | gaatsccttt  | tctctaaatc  | agattgtcct  | tcttgcaagt | 540  |
| tagtttgata  | gatttgcaag | ctatgctgct  | tccatgaagt  | tagctgcgct  | ggtaggaacg | 600  |
| caggettctt  | tgtctctggt | tgtagcttgc  | atgatcgccc  | cattaggcag  | acaacgtagc | 660  |
| cggagatcac  | aaatcaggcc | cttggtgtag  | ttgctagtgt  | gtggaggtgc  | agagaggttg | 720  |
| gcagaaaactg | acctcactgg | gcaagggtgg  | ccatggacct  | gattctttaa  | tgcactctat | 780  |
| gtgttcagga  | agccacaggc | catatttgac  | tctgagaaag  | aaaacaagag  | gaaaaacccc | 840  |
| acaaagtata  | acaacccctt | aagatacatc  | tattttaaag  | tgaaattaat  | ttttcagttt | 900  |
| ataccattgg  | ccaattacaa | gataaaaaatg | ttcaatttct  | ttaagaatcc  | ttgttgact  | 960  |
| tgtcttttca  | tctcttgcta | tttataattg  | tcactgttag  | tcaacaaagt  | cttatttgct | 1020 |
| gaggaaggac  | tttgctgcac | ttactgtaoc  | acatcaaaca  | ctggggaggg  | tggtgtttaa | 1080 |
| ctttttaaaa  | aatggtattc | tgattataac  | aataatattg  | gcttttttca  | tgaaaagagc | 1140 |
| gccaccttgc  | aagggttagt | gagatttatg  | gaagttgaat  | acctaagcag  | gaattgctgc | 1200 |
| tagctccaaa  | aatttgcgaa | gcaaaagcta  | gccccattg   | gtttggaagt  | ttgaaactga | 1260 |
| ttaacagatt  | tgcatttgaa | gtgactccag  | acattagggtc | cagacattag  | ttaaaaatag | 1320 |
| aaagaggaat  | aaagacatct | yttctctcta  | gaaaagataa  | caccrcaatt  | aataatcctt | 1380 |
| cccactttca  | ttgagatcag | cttgtctgat  | aacctgatat  | gagtgtgata  | atgataaaca | 1440 |
| tgataatagt  | ggtacttttg | taatttttgc  | ggtgcattta  | agaagatagt  | aaakgatgag | 1500 |
| ttcayctttt  | ctycgaacat | ycctatycct  | agatgtagtt  | tacctcaaat  | tggaatttat | 1560 |
| aactgtccta  | atttttgttg | tgtaccctga  | tgcccccttt  | gctttaatac  | ccacagtgtg | 1620 |
| acaattaaat  | atcacactat | gacatatgat  | ttaagtagga  | tattttaaag  | ataaatttta | 1680 |
| ggggtaaatg  | tttacttcaa | aatgactoca  | tatttcaa    | atctgttttag | actgtgaagg | 1740 |
| ccaaataatt  | tttaagaaaa | catttggaaga | gtagtgtgtt  | tgcatattgtg | aataatctta | 1800 |
| ctcacagcaa  | gtaaacgtaa | taaaagccaa  | cattttaagcc | aaaaaaaaaa  | aaaaaa     | 1856 |

<210> 53  
 <211> 1558  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1514)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1551)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1556)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 53

|             |            |             |             |             |            |      |
|-------------|------------|-------------|-------------|-------------|------------|------|
| tgggtatcca  | ttcctgnaat | tactttactt  | aggataatgg  | cctccagctc  | cgtccaagtt | 60   |
| gctgcaaaaag | gtattatttc | gttccttttt  | gtggctgagt  | agtattccat  | ggtgtatata | 120  |
| taccacattt  | tctttatcca | ctcattgctt  | gatgggcagt  | taggttggtt  | ccacatcttt | 180  |
| gcaattgtga  | gttgtgtctc | tccagatata  | atctttaact  | cctttgcctt  | ctccacatac | 240  |
| atttccaagt  | cctgttcatt | ctacctccaa  | aatgtatctt  | gtatccattc  | atctctctcc | 300  |
| atcttcaatc  | tatttcaatg | ccccatcatc  | tcttgcatgg  | aggagtgtaa  | taattggcta | 360  |
| actggcctgt  | tcttacattt | taaaatcaaa  | agatgtgaca  | ggtgaaatgc  | ctatttcagt | 420  |
| gtccattgat  | ggttctgctt | acacaccacc  | tggctgcctg  | gtgtcgcagt  | ggcagagttg | 480  |
| agcagtgtga  | aaaagactgc | ttggcccttt  | acagggaaaag | caggtccact  | gtggcctgtg | 540  |
| aggacgagag  | ctctgggcag | gctcggacac  | tggcagaccc  | tgggtcctggc | tggccaaggc | 600  |
| agcagggtat  | gtgtttcggg | tcactcacag  | ggctcagcac  | cactcctcat  | ggcttcctta | 660  |
| ctgtttcggc  | agaggctgac | ccgcggctga  | ttgagtcctt  | ctcccagatg  | ctgtccatgg | 720  |
| gcttctctga  | tgaaggcggc | tggctcacca  | ggctcctgca  | gaccaagaac  | tatgacatcg | 780  |
| gagcggctct  | ggacaccatc | cagtattcaa  | agcatccccc  | gocgttgtga  | ccacttttgc | 840  |
| ccacctcttc  | tgcgtgcccc | tcttctgtct  | catagttgtg  | ttaagcttgc  | gtagaattgc | 900  |
| aggtctctgt  | acggggcagt | ttctctgcct  | tcttcacagga | tcaggggtta  | gggtgcaaga | 960  |
| agccatttag  | ggcagcaaaa | caagtgcacat | gaagggaggg  | tccctgtgtg  | tgtgtgtgct | 1020 |
| gatgtttcct  | gggtgccctg | gctccttgca  | gcagggctgg  | gctgcgaga   | cccaaggctc | 1080 |
| actgcagcgc  | gctcctgacc | cctccctgca  | ggggctacgt  | tagcagccca  | gcacatagct | 1140 |
| tgcctaattg  | ctttcacttt | ctcttttgtt  | ttaaagtact  | cataggtccc  | tgacatttag | 1200 |
| ttgattattt  | tctgctacag | acctggtaca  | ctctgatttt  | agataaagta  | agcctaggtg | 1260 |
| ttgtcagcag  | gcaggctggg | gaggccagtg  | ttgtgggctt  | cctgctggga  | ctgagaaggc | 1320 |
| tcaçgaaggg  | catccgcaat | gttggtttca  | ctgagagctg  | cctcctgggtc | tcttcaccac | 1380 |
| tgtagtcttc  | tcatttccaa | accatcagct  | gcttttaaaa  | taagatctct  | ttgtagccat | 1440 |
| cctgttaaat  | ttgtaaacaa | tctaattaaa  | tggcatcagc  | actttaacca  | aaaaaaaaaa | 1500 |
| aaaaaaaaaa  | aaanaaaaaa | aaaagggggc  | cgctctagag  | gtccaagtta  | ngacgnngg  | 1558 |

&lt;210&gt; 54

&lt;211&gt; 948

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| taaaaatcat  | gctctgtacc | atcctcaccg  | tagtcatcat  | catcgccgcg  | cagaccacga | 60  |
| gaactactgg  | gacccctaaa | aacgcccctg  | gtccggcccc  | actctgcgcc  | cctcgatctc | 120 |
| ccaggctctt  | tctgcagwca | taccgcgga   | ccaatggggc  | ccctgcacac  | ccgtttctgg | 180 |
| ggcogtcaga  | cttgataaca | togtaaaactc | cgccctccacg | gaacgtctcg  | cctkcgagac | 240 |
| aagmtoggaa  | tcagttcct  | caggaacccc  | tccaaaaccc  | acacccccag  | ggacgccgct | 300 |
| ttcogggatc  | ccggscaaac | gocggaccct  | cagtgcctcc  | aggccccctc  | accctcaaag | 360 |
| tgtagcgccc  | ccaaccgagc | aacctcggtt  | tggteccetaa | aaccccgccct | cctctataag | 420 |
| caccgccccca | gctctgacaa | aaccccgccct | ccaggtcggc  | aggctccgct  | tcttttcttc | 480 |
| tccgcgggggt | gattcagtec | agtgattggg  | tttgtggctc  | caggcctcgc  | ccacagacgg | 540 |
| acagacccct  | ccctttcttc | cggcaaaaag  | accgagccct  | ggggtagtaa  | ggsccccaca | 600 |
| ctcctgtttt  | ttgcaagta  | atttttgtct  | ytctctcacc  | caggtatctg  | cctattttct | 660 |
| tgtaatctcc  | agaacctttc | cttttgcttt  | ttttaaggac  | atttggaag   | ttcctgggtg | 720 |
| aggacccttc  | tccctgggat | aagaaacctg  | cctgtaaacg  | ctctgtaaat  | actcccttcc | 780 |
| accatcccca  | gcccctgggc | agccgggcag  | aagggaatcc  | aggctatgga  | cctcccaagt | 840 |
| ccccgctccc  | cgctccccc  | ggcgggcccc  | ccttggtctg  | atctgtgtgt  | gagtgtgtgt | 900 |
| gaacttctga  | aagacaatat | taaagagact  | tagttgaaaa  | aaaaaaaa    |            | 948 |

<210> 55  
 <211> 990  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (751)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (879)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (888)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (897)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (899)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (901)  
 <223> n equals a,t,g, or c

<400> 55  
 ggggaactgc agtgacagca ggagtaagag tgggaggcag gacagagctg ggacacaggt 60  
 atggagaggg ggttcagcga gcctagagag ggcagactat caggggtgccg gcggtgagaa 120  
 tocagggaga ggagcggaaa cagaagaggg gcagaagacc ggggcacttg tgggttgagc 180  
 agccccctcag ccatgttggg agccaagcca cactggctac caggtccccct acacagtccc 240  
 gggctgcctt tggttctggt gcttctggcc ctggggggccg ggtggggcca ggaggggtca 300  
 gagcccgctc tgctggaggg ggagtgcctg gtggctctgt agcctggccg agctgctgca 360  
 gggggggcccg ggggagcagc cctgggagag gcacccccctg ggcgagtggc atttgytgcg 420  
 gtccgaagcc accaccatga gccagcaggg gaaaccggca atggcaccag tggggccatc 480  
 tactttagacc aggtcctggt gaacgagggc ggtggctttg accggggcctc tggctccttc 540  
 gtagccccctg tccgggggtgt ctacagcttc cggttccatg tgggtgaaggt gtacaaccgc 600  
 caaactgtcc aggtgagcct gatgetgaac acgtggcctg tcctctcagc ctttgccaat 660  
 gatcctgacg tgacccggga ggcagccacc agctctgtgc tactgcccct ggaccctggg 720  
 gaccgagtgt ctctgcgcct gcgtcggggg naatctactg ggtgggttga aatactcaag 780  
 tttctctggc ttctctatct tccctctctg aaggacccaa gtctttcaag cacaagaatc 840  
 cagccccctga caactttctt ctgcccctct ttgcccana aacagcanaa gcagganana 900  
 naotccctct ggctcctatc caacctcttt gcatgggaac ctgtgccaaa cacccaagtt 960  
 taagaaaaaa ataaaaactgt ggcattctcca 990

<210> 56  
 <211> 1603  
 <212> DNA



<213> Homo sapiens

<220>

<221> SITE

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (788)

<223> n equals a,t,g, or c

<400> 56

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| ggctcgaccca | cgcgtccggc | cgcgcggctc  | cggagcggct  | ctgccttccc  | gagcgcggga  | 60   |
| ccgcgccttg  | ggggaggagg | gcgaacgacg  | cggcgatggc  | tccgcgggca  | ctcccggggt  | 120  |
| ccgcgcctct  | agccgctgct | gtcttcgtgg  | gaggcgccgt  | gagttcgccg  | ctgggtggctc | 180  |
| cggacaatgg  | gagcagccgc | acattgcaact | ccagaacaga  | gacgaccccg  | tgcgccagca  | 240  |
| acgatactgg  | gaatggacac | ccagaatata  | ttgcatacgc  | gcttgccct   | gtgttcttta  | 300  |
| tcatgggtct  | ctttggcgtc | ctcatttngc  | camctngctt  | naagaagaaa  | ggctatcggt  | 360  |
| gtacaacaga  | agcagagcaa | gatatogaag  | aagaaaaagg  | ctgaaaagwt  | agrattgaat  | 420  |
| gacagtgtga  | atgaaaacag | tgacactgtt  | gggcaaatcg  | tccactacat  | catgaaaaat  | 480  |
| gaagcgaatg  | ctgatgtytt | aaaggcgatg  | gtagcagata  | acagcctgta  | tgatcctgaa  | 540  |
| agccccgtga  | ccccagcac  | accagggagc  | ccgccagtga  | gtcctgggct  | ttgtcaccag  | 600  |
| gggggacgcc  | agggaagcac | gtctgtggcc  | atcatctgca  | tacggtgggc  | ggtgtwgtcg  | 660  |
| agagggatgt  | gtgtcatcgg | tgtaggcaca  | agcgggtggca | ctttataaag  | cccactaaca  | 720  |
| agtccagaga  | gagcagacca | cggcgccaag  | gcgaggtcac  | ggtcctttct  | gttggcagat  | 780  |
| ttagagtnac  | aaaagtggag | cacaagtcaa  | accagaagga  | acggagaagc  | ctgatgtctg  | 840  |
| ttagtggggc  | tgaaccgctc | aatggggagg  | tgccggcaac  | acctgtgaag  | agagaacgca  | 900  |
| gtggcacaga  | gtagcagggt | agccgtgggt  | ttggtgacat  | tgggggcaga  | gtgggtgcagg | 960  |
| gtgaggagaa  | ggtacttgga | gcctcccagg  | tgctgtggca  | gcataggaat  | ggtatttgac  | 1020 |
| aggggaagtgg | gagagctttc | cttgaccag   | gaagactgag  | ggggactgaa  | catgattact  | 1080 |
| tgtctgccta  | gagcttcttg | taaagaagtc  | acaaacttag  | tgccctccagg | ggcttggctg  | 1140 |
| tgtgataatg  | aggatagagg | attacttgtg  | aggcaatgtg  | gcatgggtggg | gattgtggca  | 1200 |
| aactagaatt  | cacatcacc  | accatatagg  | gcttgcatta  | ccacgaggga  | gaaagcacct  | 1260 |
| agtgttgctg  | catcttctta | cgcaaaaaag  | acaaaatcca  | gacttctaaa  | atgtaaaatc  | 1320 |
| actgattttc  | gatattggca | gcttactttt  | tttttttaaa  | caaccatgca  | ggccaaatga  | 1380 |
| cttgtaatct  | tgtaaccatt | tttaggtaaa  | ctgtgacttg  | aaaaagtctg  | gagcaaaaca  | 1440 |
| accaatgctt  | tttcttttta | ttctgttggg  | aaccagtttt  | ctttgtgtca  | cagttytgaa  | 1500 |
| acctcaatac  | gaatatctct | cttcccacca  | aatattttga  | ggcaattgaa  | aagccacagt  | 1560 |
| gattttatttc | ttgatctggc | aatttttaatt | ttgcaagaca  | att         |             | 1603 |

<210> 57

<211> 1052

<212> DNA

<213> Homo sapiens

<220>

<221> SITE  
 <222> (250)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1051)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1052)  
 <223> n equals a,t,g, or c

<400> 57  
 tacagctcag gatgcctgta acattgtcat ctctgggctt ctgggtcctg cttagcctgc 60  
 tttttccctg gaggactgac cagggatgcg gccagcaac atgttactaa atcatactct 120  
 cctccctacc tttcccgagc ctctcactcc tgcttggtgt tccaaccctg tctgtggcca 180  
 gagtatacat tttggaaact cttcgaggcc atcctgcagt tccagatgaa ccatagcgtg 240  
 cttcagcagn aaggcccgag acatgtatgc agaggagcgg aagaggcagc agctggagag 300  
 ggaccaggct acagtgcagc agcagctgct gcgagagggg ctccaagcca gtggggacgc 360  
 ccagctccga aggacacgct tgcacaaact ctcgccaga cgggaagagc gagtccaagg 420  
 cttcctgcag gccttggaac tcaagcgagc tgactggctg gccgtcttg gcactgcctc 480  
 agcctgaatg aggctggcca cctgccactt tgccctgcc tetgctcca gggctccmct 540  
 myccttcctt ttcttggtga aaggcacctc ctttctgat aatgaatggt gttccctttg 600  
 cttggctggg gagcccccca ggccagggtt gctggccata gatacctttg ggctgcctgr 660  
 gacaggctcc tgaggaggat tgagggtgaa agtctccac gactacacta aacctaggtc 720  
 tggtcaccaa tagggtttgg agagcaaagg gccacaactc atcagctgcc tgtctcttag 780  
 atgcactttc tttttccacc agcacatcct tcaacacaca gaatttcagg gaagagtctc 840  
 cccaaaaacc ctagctcttt acccttccat tttagccttc caccagctt ccacaaaaga 900  
 tttggctcta ccttggtatc gctagtaaata aactaatagg caggcagtta tttgggtaag 960  
 gaaaaaaggg gtgggagaga cagaaaattt gccactgct gctcctcccc ttggstytc 1020  
 acctgggatt tgctattgaa tctctaccct nn 1052

<210> 58  
 <211> 814  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (32)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (751)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (770)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (784)

<223> n equals a,t,g, or c

<400> 58

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| acncgntggc  | ggccgctcta | gaactagggg | ancccccggg  | ctgcaggaat | tcggcacgag  | 60  |
| catagacttt  | taaactggta | cggttcttag | agatgggtcct | tggccttctg | ttgttgttgt  | 120 |
| kgtttttttc  | tttttcttct | tctcttcttc | cttcttcttc  | tcttctcttc | ctttcttctt  | 180 |
| ttttttttca  | gagtcttgct | ctgtcaccaa | gactggagtg  | aagtgatgtg | atctcggctt  | 240 |
| actgcaacct  | gggaggcaga | ggttgcagtg | agtcgagatg  | gtgccattgc | tctcgttttg  | 300 |
| gcaacaagag  | tgaaactctt | gtctcaaaaa | aaaaaaaaaa  | atgagggtta | agacagtttt  | 360 |
| gtcattactg  | gtgggatctg | gtcacacaag | atagcattaa  | acgtgacatg | gcacataaaa  | 420 |
| ttgggttaaaa | aattttgttt | tttaattacg | taatgtaaaa  | gccaacaaa  | cacttttatgc | 480 |
| aagattggaa  | tgtatcttca | aattcagatt | taataaacat  | gtaaagatcc | tctgtatata  | 540 |
| aaagtgtgat  | ttaatccctt | gtgccccaa  | aatgctataa  | aagatcccaa | gaatgttatc  | 600 |
| tatgaaaaga  | tagcaatagg | gaatggtgaa | caaataat    | aatttgccaa | ttctaaaaaa  | 660 |
| catggactta  | aaccccatga | aaacttggtt | ccatagtttt  | aactgtttta | tggttccaat  | 720 |
| acaaaaccag  | agtggtttac | attccacaat | naccaaattt  | gcatccaatn | ttggggtaat  | 780 |
| tttnggtatt  | tgccatggga | tactattcat | tttt        |            |             | 814 |

<210> 59

<211> 1215

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1024)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1098)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1186)

<223> n equals a,t,g, or c

<400> 59

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| agaggdaagtc | ttttgccaa  | cctgttctct | ggactaacgc | catccaggct | gggaggggaa | 60  |
| gagtgcctcg  | ctacactcgt | ccccctcctg | cctcatcttc | cttctcagcc | ttggttcctg | 120 |
| atgggaacag  | aatggagggc | ctgagaacat | actttctaaa | tgcctttgac | ccaggaaccg | 180 |

|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| attatctata | tttgttccca | ttttccttca  | cogtgacatt | ccagcattgt | ctgactgtga  | 240  |
| ggtgggcctt | tgagagcctc | caggttccctc | aaaacaggcc | tgagcgatgg | gcatcacacc  | 300  |
| ctctgcctac | ccacrtgcct | gcttacctgc  | cagataacca | agtgnagatg | tctgcgagtg  | 360  |
| gctagttttc | acattcttac | tagtgtttgg  | ytacaccttg | ggcaaaggcc | ccctctaggc  | 420  |
| cttgccccac | ctccatcaaa | cgcagacact  | gtagtcagac | ctcagyaata | taggaggcaa  | 480  |
| taatctttta | acagtgtttt | gcaaacaaac  | aaaagagaa  | aaatcccagc | caggggaact  | 540  |
| cgccacctgc | ccacgctagt | tccatccacg  | ctcaagaacc | gcccttagac | caggcaggca  | 600  |
| aaggccccca | tcacactcgg | ccactagtgg  | ggtcctgagg | ccaagaaaga | aaccagaccc  | 660  |
| tgtatgacaa | gttgggktct | ttccagaaca  | cgacagaaac | agggggggcc | ccttggtta   | 720  |
| gccactccat | actccagaag | cattattcct  | tatttgggac | agccaagggc | agattcacag  | 780  |
| gttattgtag | gaataaagac | tagtttacia  | aggaraaaga | gsccttgga  | ttcccmagga  | 840  |
| aaggtcagg  | tagggctcct | gtacccattc  | tgttccacca | ctgtttgac  | tctctggcct  | 900  |
| cccaccagga | atgccgtttc | ctttttatgg  | atctgttggg | aaccagagag | aatcaacaga  | 960  |
| tcaatgacat | aggatccgaa | gtgcaatgat  | agtcacttct | agtttggcat | ttcaciaaact | 1020 |
| ctgnacagca | aggtattggg | aggttactca  | atttcaaaa  | ggccccatgg | ccaaatatgt  | 1080 |
| ttaggaaccg | ctgtttgnat | ttcttttttt  | ggagacgcat | tgtatataat | atatgtcaaa  | 1140 |
| ggctttcgga | attcctgcag | gaaagaaatc  | agctttgtta | aatccnaaaa | aaaaaaaaaa  | 1200 |
| aaaaaaatag | actcg      |             |            |            |             | 1215 |

<210> 60  
 <211> 478  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (410)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (476)  
 <223> n equals a,t,g, or c

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 60    |            |            |            |            |            |     |
| atttcttatg  | acatgggggt | ttgaattggg | tggcaaatgt | ttaattttta | tatccataat | 60  |
| cagtggaggtc | ctgctggctg | taatcattaa | ttgtgaaatc | taaggagcct | agttcatggc | 120 |
| tctagaattt  | cacagaaaar | tgygmtatga | tacgagcatt | aagtttattt | cttctgatct | 180 |
| ttgatgcagc  | tttgttcagt | ttatctgttt | ttgtatttat | tggtcatcta | cttcccatgc | 240 |
| caaaaggggac | tggtctacat | agctgcgcta | aacacctgat | caaatcacta | aaagaaaatg | 300 |
| tgttacctct  | aatgaattat | cctgattgta | agttaaaaat | caatatttcc | ccgtagtggg | 360 |
| gtttgtcttt  | taaaaagaak | kcttaaaaaa | aaaaaaaaaa | aaacgagttt | aagaaaagga | 420 |
| agcaagctca  | ggtaagggtg | acacattggg | ctaaggaagc | tagagcctgt | ggagangc   | 478 |

<210> 61  
 <211> 618  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE

<222> (39)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (548)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (560)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (562)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (584)  
 <223> n equals a,t,g, or c

|   |     |
|---|-----|
| <400> 61  |     |
| tatgaccttg ataaccceaa gttngaaatt aaccttcant aaaggggaaca aaagctggag  | 60  |
| ttcgcgcgct tgcagttoga cactagtggga tcccaaagaa ttcggcacga gtcataatga  | 120 |
| gctactaggt aagccttctg ggactttcag atattttggg gaagattgat ttttgttctt   | 180 |
| acatgctgtg gacccttggc catcaaattg tatggggaag ctcattccgtc tgcctgtgat  | 240 |
| ggtcattgtca gtcaggcgctc tttttagtat ttactgggtg ctcagtactg tgccagatgc | 300 |
| tgtcgggagc cgtgggtggta tggaggagga gtgctccaga ggactctgct gtgtggcagg  | 360 |
| ccagcataaa caagccaagg ggaaaaggca ggcatggaat aaagggggag aataccagtg   | 420 |
| tgtgacttac tgctgactgt gtggattagc ctatcagcag taatcaagca gggcggaggg   | 480 |
| cattatcttt gagccagaag agtgagcact ggscogaggg tggagcatca agaggggggtg  | 540 |
| taggaccnca aggccttctn cnggggagac aacgtcaata agcngtcagt agtcaccgac   | 600 |
| agttttggga agcaaggg   | 618 |

<210> 62  
 <211> 751  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (158)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (159)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (202)  
 <223> n equals a,t,g, or c

<400> 62

|             |             |             |             |            |             |     |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| tcgacccacg  | cgtccgagga  | gctggacttc  | tgagacagcc  | attctccttg | catagcactg  | 60  |
| tctgctgcta  | cagctcatag  | aagtcacaaa  | ttttcttcaa  | cactggtagg | cagcctctaa  | 120 |
| atggccctga  | tcacccctcac | ctcctgccat  | tcacaccnnt  | gtaaaattcc | acccctggac  | 180 |
| ctagtgactc  | acttctaaca  | angagaatac  | agcaaaagta  | acatcgcttc | tgagggtgagg | 240 |
| ctacaaggag  | actacgatgc  | ctgccttggt  | cacccttctc  | ctgctctttc | cattgctccc  | 300 |
| tctgatggaa  | gccagttgcc  | atgtgatgag  | gtgccctatg  | gagaggccca | cgtgacaagg  | 360 |
| tattgtaaaa  | agcctctgac  | caatagccat  | ctagaaaagg  | aggcccagtc | cagcagcctc  | 420 |
| tgagatgaat  | cctgcccaacc | tgagcttgga  | gacagattct  | ctccctatcc | tgccctggga  | 480 |
| tgatcacagc  | caccaccaac  | accttcaactg | cctgggtgaga | ggccaagcca | gtgaacccaa  | 540 |
| ggtaaaactgg | acagaatcct  | gacccacaga  | aactgagata  | atgtttgtta | ttttaagctg  | 600 |
| ctcagtttgt  | tacagagcaa  | tagataacta  | actcaaacac  | cataaaattc | taatatttta  | 660 |
| ttctatcaca  | caaaccaggt  | aataccaagt  | aaatgccatt  | actatacaca | tatttttgta  | 720 |
| acacaattac  | atgtgatattt | ttaagaaggc  | t           |            |             | 751 |

&lt;210&gt; 63

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (738)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (776)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 63

|            |             |             |             |             |             |     |
|------------|-------------|-------------|-------------|-------------|-------------|-----|
| cngncagtca | cngtccccga  | ttcccgggtc  | gacccacgcy  | tccggggttg  | caactcctga  | 60  |
| ggcctgcatg | ggtgacttca  | cattttcceta | cctctccttc  | taactctctc  | tagagcacct  | 120 |
| gctatcccca | acttctagac  | ctgctccaaa  | ctagtgacta  | ggatagaatt  | tgatcccccta | 180 |
| actcactgtc | tgccgtgctc  | attgtgtgta  | acagcattgc  | ctgtgctctc  | ctctcagggg  | 240 |
| cagcatgcta | acgggggcgac | gtcctaattc  | aactgggaga  | agcctcagtg  | gtggaattcc  | 300 |
| aggcactgtg | actgtcaagc  | tggcaagggc  | caggattggg  | ggaatggagc  | tggggccttag | 360 |
| ctgggaggtg | gtctgaagca  | gacaggggaat | gggagaggag  | gatgggaagt  | agacagtggc  | 420 |
| tggtatggct | ctgaggctcc  | ctggggcctg  | ctcaagctcc  | tccctgctcct | tgctgttttc  | 480 |
| tgatgatttg | ggggccttg   | agtcctcttg  | tccctcatctg | agactgaaat  | gtggggatcc  | 540 |
| aggatggcct | tccctcctct  | taoccttccct | ccctcagcct  | gcaacctcta  | tccctggaacc | 600 |
| tgctctccct | ttctccccaa  | ctatgcactc  | gttgctctgct | cctctgcaaa  | ggccagccag  | 660 |
| cttgggagca | gcagagaaat  | aaacagcatt  | tctgatgccca | aaaaaaaaaa  | aaaaaaaaac  | 720 |

gcggccgaaa gcttattncc ctttaagtaa ggggttaatt tttagcttgg gcactnggcc .780

<210> 64  
 <211> 588  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (565)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (566)  
 <223> n equals a,t,g, or c

<400> 64  
 ttccgaatta atcgactcac tataggaawt gccgtcgcca tgacccgcgg taaccagcgt 60  
 gagctcgccc gccagaagaa tatgaaaaag cagagcgact cggttaaggg aaagcgccga 120  
 gatgacgggc tttctgctgc cgcccgcaag cagagggact cggagatcat gcagcagaag 180  
 cagaaaaagg caaacgagaa gaaggaggaa cccaagtagc tttgtggctt cgtgtccaac 240  
 cctctttgcc ttgcctgtg tgccctggagc cagtcccacc acgctcgcgt ttctcctgt 300  
 agtgcacaca ggtcccagca ccgatggcat tccctttgcc ctgagtctgc agcgggtccc 360  
 ttttgtgctt ccttcccctc aggtagcctc tctcccctg ggccactccc ggggggtgagg 420  
 gggttacccc ttcccagtg tttttattcc tgtggggctc accccaaagt attaaaagta 480  
 gctttgtaat tccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540  
 aaaaaaaaaa aaaaaaaaaa aaaanncggy ggggggcccc cccccccc 588

<210> 65  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (13)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (15)  
 <223> n equals a,t,g, or c

<400> 65  
 naatacgatc atnanagggc gattgggtac gggccccccc tcgagttttt tttttttttt 60  
 tttggcaagt gagaagatgc agataggcaa aaagraaaaa aaagagatca cacagagatt 120  
 cactgttaac ctttgggtga taataaaatc agacactttc ctttgcatta tgtcacatag 180  
 aaatgtacaa ataaagtgt catatatata cacatatatg tatacactgt tttgcaactc 240  
 gttattttca ctttgcata tacaatgagc atttttccat gcaaatgaat gagacctctt 300  
 attaaatgaa taagattggg tcaaaagatg agatgttgac aagagtcata tgtaaatttc 360

|            |             |            |             |             |             |     |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| agcaacatcg | aatgactgga  | gtaaaacgat | agcaaattatt | tatcaagaaa  | gtgcagacaa  | 420 |
| acagaaagca | gtggcaacat  | taataacaga | aaataattga  | attgtcagag  | aaattaatta  | 480 |
| aatgggataa | ggacgggtccc | gagaatgcct | atgggttagaa | tgacagagccc | taaattttctt | 540 |
| tctyagaccc | cttatctctt  | ccaaacacct | ttccatctca  | tctccctccc  | ttgtcatttc  | 600 |
| ttcatcttta | aaatgcctat  | agtctatgtc | ctctttaaat  | tcttcgagag  | actgaagcag  | 660 |
| cctctgtcta | aaattccctt  | ctgtttgctg | gogttcaa    | tctccatacg  | ggcgtttttc  | 720 |
| ctccctcttt | ggcacgctgc  | acttttgctt | tctttcggtt  | tctttgcagg  | gtttttgcat  | 780 |
| gatgttggtg | ttgtttcctg  | cttaactctg | tgoggggtag  | tttccgtctc  | cttttcttcc  | 840 |
| cccagatgtc | tgtgaacaca  | gatcctggga | cctcttccct  | cccttggcca  | caagcacgca  | 900 |
| cggcacgctt | gtctgcaggg  | cagtaaggag | ctggtaacct  | gtgcc       |             | 945 |

<210> 66  
 <211> 1866  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (262)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (674)  
 <223> n equals a,t,g, or c

|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| <400> 66   |             |            |             |             |            |      |
| acccacgcgt | ccggtcctct  | tcttcagcac | atgccaaagc  | tgttcctcac  | ggcctgtgag | 60   |
| acaagagcat | cttggatgta  | ggacaatgga | agagtttagat | gccttattgg  | aggaactgga | 120  |
| acgtccacc  | cttcaggaca  | gtgatgaata | ttccaacca   | gtcctctctc  | ccctggatca | 180  |
| gcattccaga | aaggagacta  | accttgatga | gacttcggag  | atcctttcta  | ttcaggataa | 240  |
| cacaagtccc | ttgccggcgc  | antcgtgtat | actaccaata  | tccaggagct  | caatgtctac | 300  |
| agtgaagccc | aagagccaaa  | ggaatcacca | ccaccttcta  | aaacgtcagc  | agctgctcag | 360  |
| ttggatgagc | tcattggctca | cctgactgag | atgcaggcca  | aggttgacgt  | gagagcagat | 420  |
| gctggcaaga | agcacttacc  | agacaagcag | gatcacaaag  | cctccctgga  | ctcaatgctt | 480  |
| gggggtctsg | agcaggaatt  | gcaggacctt | ggcattgcca  | cagtgcccaa  | gggccattgt | 540  |
| gcatectgcc | agaaaccgat  | tgctgggaag | gtgatccatg  | ctctagggca  | atcatggcat | 600  |
| cctgagcatt | ttgtctgtac  | tcattgcaaa | gaagagattg  | gtccagctcc  | cttctttgag | 660  |
| cggagtggct | tggnctactg  | ccccaacgac | taccaccaac  | ttttttctcc  | acgctgtgct | 720  |
| tactgcgctg | ctcccatcct  | ggataaagtg | ctgacagcaa  | tgaaccagac  | ctggcaccca | 780  |
| gagcacttct | tctgctctca  | ctgcggagag | gtgtttggtg  | cagaaggctt  | tcatgagaag | 840  |
| gacaagaagc | catattgccg  | aaaggatttc | ttagccatgt  | tctcacccaa  | gtgtggtggc | 900  |
| tgcaatcgcc | cagtgttgga  | aaactacctt | tcagccatgg  | acactgtctg  | gcaccagag  | 960  |
| tgctttggtt | gtggggactg  | cttcaccagt | ttttctactg  | gtccttctt   | tgaactggat | 1020 |
| ggacgtccat | tctgtgagct  | ccattaccat | caccgcccgg  | gaacgcctctg | ccatgggtgt | 1080 |
| gggcagccca | tcactggccg  | ttgtatcagt | gccatggggg  | acaagttcca  | tcctgagcac | 1140 |
| tttgtgtgtg | ctttctgctt  | gacacagttg | tcgaaggcca  | ttttcaggga  | gcagaatgac | 1200 |
| aagacctatt | gtcaaccttg  | cttcaataag | ctcttcccac  | tgtaatgcca  | actgatccat | 1260 |
| agcctcttca | gattccttat  | aaaattttaa | ccaagagagg  | agaggaaagg  | gtaaattttc | 1320 |
| tgttactgac | cttctgctta  | atagctttat | agaaaaagga  | aagggtgatga | gcaaataaag | 1380 |
| gaacttctag | actttacatg  | actaggctga | taatcttatt  | ttttaggctt  | ctatacagtt | 1440 |
| aattctataa | attctctttc  | tccctctctt | ctccaatcaa  | gcacttggag  | ttagatctag | 1500 |
| gtccttctat | ctcgtccctc  | tacagatgta | ttttccactt  | gcataattca  | tgccaacact | 1560 |
| ggttttctta | ggttttctcca | ttttcaoctc | tagtgatggc  | cctactcata  | tcttctctaa | 1620 |
| tttggtcctg | atacttgttt  | cttttcaagt | tttcccat    | ccctgtggct  | cactgtotta | 1680 |
| caatcactgc | tgtggaatca  | tgataccact | tttagctctt  | tgcatcttcc  | ttcagtgtat | 1740 |
| ttttgttttt | caagaggaag  | tagattttta | ctggacaact  | ttgagtactg  | acatcattga | 1800 |



taaataaaact ggcttgtggt ttcaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860  
 aaaaaa 1866

<210> 67  
 <211> 1152  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (668)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (745)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1015)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1088)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1110)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1113)  
 <223> n equals a,t,g, or c

<400> 67  
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 actttttgcc ccactgtaaa ttctgggtgt atcctccact gtatgctgtc accccaaggg 120  
 caagcactgc atctgcttag tgaaggattt attgttcgga agatacattt tccccctkag 180  
 cagagagtgg cgtatcctgg cagtccttcgg tgagccagtt gtaccaggat tatgaaatgc 240  
 agatgtttac tgtgtcattg ttgctgtcat tgctactgag gactactgac cagaatcatc 300  
 tgcaactytt agttggcaga gaggaccact atggcgggta gctcttttct ttcttgccat 360  
 tgtggggatg attccaggcc aaagatgatg garaagtatg gaaatcatct gaaaggttga 420  
 agcttggcac gtgaagccat tcatgaactt gtaaggcagt ttgctgaag gccagttctg 480  
 ccctggggagg gacggagggtg aatcctctcg agtacctgtg gttttcttac ttctgctga 540  
 atttacctaa gtgcctgttg tttgcttgcg gtggaggctt tctggtattt catttcaggt 600  
 gcagatgcct tcactttccc accraaaaaa ccccmaccaa acctagacc ttactgcaac 660  
 taagtytncc aagtactttt taacccaatg ggatgaacag cctgtggtct gctcagatca 720  
 ccctgagtgc gtgtgagaag gcmtnngcct tgccaggaaa tccaggaagg cagggccggg 780  
 ctgtgttgga agctggctta gctgggtggg cagccttatt tcaattaaaa gggcattgac 840  
 tgggagcagc agtccctggag tttgttgcat ttctattgc cctcaaaatg agaaaccagg 900  
 aaaatagcag attggagcct tcgagaaggc agtaaatggc tgtttttatt gacaaaagga 960  
 aaacatttta ctgccatctc actgatggca tctcactgac ttaaaatgaa ggcangttgt 1020  
 agtaaaaaaa aaagtctaca tttttccacc gccacgttct tatatcctgt ttgtcagcca 1080

ctgctcanaaa gggcatgttg tcttgcggan tanaggcgct ctcttccct cgttttccct 1140  
ataggttggg tg 1152

<210> 68

<211> 2483

<212> DNA

<213> Homo sapiens

<400> 68

agcaggcggt ggcgtggggg cgggagcagc gcgkagcccg gctcggccac accgatcgcc 60  
cgccgccatg ggctcctcgc aaagcgtcga gatcccgggc gggggcaccg agggctacca 120  
cgttctgcgg gtacaagaaa attccccagg acacagagct ggtttgagc ctttctttga 180  
ttttattgtt tctattaatg gttcaagatt aaataaagac aatgacactc ttaaggatct 240  
gctgaaasca aacgttgaaa agcctgtaaa gatgcttatt tatagcagca aaacattgga 300  
actgcgagag acctcagtc caccaagtaa cctgtggggc ggccagggct tattgggagt 360  
gagcattcgt ttctgcagct ttgatggggc aaatgaaaat gtttgccatg tgctggagggt 420  
ggaatcaaat tctcctgcag cactggcagg tcttagacca cacagtgatt atataattgg 480  
agcagataca gtcataaatg agtctgaaga tctattcagc cttatcgaaa cacatgaagc 540  
aaaaccattg aaactgtatg tgtacaacac agacactgat aactgtcgag aagtgttat 600  
tacacaaat tctgcatggg gtggagaagg cagcctagga tgtggcattg gatattggtta 660  
tttgcctcga atacctacac gcccatattga ggaaggaaag aaaatttctc ttccaggaca 720  
aatggctggg acacctatta cacctcttaa agatgggttt acagagggtcc agctgtcctc 780  
agttaatccc ccgtctttgt caccaccagg aactacagga attgaacaga gtctgactgg 840  
actttctatt agctcaactc caccagctgt cagtagtgtt ctacgtacag gtgtaccaac 900  
agtaccgtta ttgccaccac aagtaaacca gtccctcact tctgtgccac caatgaatcc 960  
agctactaca ttaccaggtc tgatgccttt accagcagga ctgcccaccc tccccaacct 1020  
caacctcaac ctcccagcac cacacatcat gccagggggt ggcttaccag aacttgtaaa 1080  
cccaggctctg ccacctcttc cttccatgcc tcccggaaac ttacctggca ttgcacctct 1140  
ccccctgcc tccgagttcc tcccgctcatt ccccttggtt ccagagagct cttctgcagc 1200  
aagctcagga gagctgctgt cttccctccc gccaccagc aacgcaccct ctgacctgc 1260  
cacaactact gcaaaaggcag acgctgcctc ctactcact gtggatgtga cgccccccac 1320  
tgccaaggcc cccaccaccg ttgaggacag agtcggcgac tccaccccag tcagcgagaa 1380  
gectgtttct ggggtgtggt atgccaatgc ttctgagtc ccttaacttt gaaccattct 1440  
ttggaattgg cgtgggtatat ttaaccacgg gagcgtgtct ggaaacgcaa actatcatta 1500  
atttcatact agtttgtaac gtatctgtag gcacctgtta aataattcca aggggaaac 1560  
taaacgagga cgtgggttgt atcctgccag gttgagtggg gctcacacgc tagggtgaga 1620  
tgtcagaaag cgcttgattt ttaacaacc aaaaagaatt gtaagggtgg cttgctgcca 1680  
ggcttgcact gccgttcctg ggggtgtgca tcttcgggaa aggtgggtggc ggggcgtcca 1740  
ctaggtttcc tgcctcctgc tgcctcctcc gtaagaaaat gaaatattct atgcctaata 1800  
ctcacacgca acatttcttg tactttgtaa gtctgttgcg agaattgcaga ccacctcact 1860  
aaactgtaaa cggtaaaagag atttttactt ttggtctccg tgagtcgcat ctctactaag 1920  
gtttacacag gaattccacc tgaagacttg tgtaaagtt ctacagcgcg cactgttaac 1980  
tgaacgtctt tttcttcagc ctatacgcgg atccttggtt tgagctctca gaatcactca 2040  
gacaacattt tgtaactgct gctgttgctt tctacataca cttataaag tgacatttca 2100  
aaagaaataa ggtgccacag ttttaaacca gaagggtggc ctctgtggct cttgttagta 2160  
ttatagctat actgggaaaag catagataca gcaataaagt acagtaattt tactttttt 2220  
cttgtgttac atctaaatta caacccttaa ttgccacgtg tgcacttact actctccagt 2280  
atgtcttatt actctccagt atgtcacgca tctttaactt ttcacgtcct atgtttgctt 2340  
tctcccat ttaagagatg gtaagttaac tggaattgat ttactgaatg aaattaaatg 2400  
cagatatccc tgtttttgaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2460  
aaaaaaaaa aaaaaaaaaa aaa 2483

<210> 69

<211> 536

<212> DNA

<213> Homo sapiens

&lt;400&gt; 69

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gagaaatgga | gctttgttag | ataaaaat   | tttcaacgca | aacagtcatt | ttccagtga   | 60  |
| aggagagcgt | atccgccgta | ggatggactt | agatcgtgta | aaagctgagg | ccaccgagga  | 120 |
| tataacctcc | ggggtccttt | gcctcctttt | ccttagactc | cctccaaact | cgtgtatctt  | 180 |
| tccttcagca | gtactgggct | ccacgcgaac | ctagtccttt | gtctttaccc | tattaccttt  | 240 |
| cataacatcc | tagttgaaaa | gtarrrtttc | aaccgcgttt | gaaaatgaga | acagggttcac | 300 |
| agargctagg | ttacttgoga | aggtcgttca | attagtaacc | agtaacgcca | ggactgccag  | 360 |
| tttcttgctt | ccgaattctc | atggtagctt | tcaccargct | ccccgtcmaa | tgctaacgtc  | 420 |
| aactactgaa | ctagattagc | aaaaaggctt | tttaacagaa | ttcctgggtt | tcagagagag  | 480 |
| tttctttcat | gaagcgcccc | atttctacag | aggaaaataa | actccaagca | gccagt      | 536 |

&lt;210&gt; 70

&lt;211&gt; 574

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 70

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| ggggggcgaa | ttccccctggc | acgaggctga | cgcattgcga | tagctaaccg | caccoggttc  | 60  |
| agctcgcctt | tcttgccag   | aggcgccggt | tggactcacg | ggcggggcat | gatgggtggtg | 120 |
| ggtaacggga | cctcgtcggc  | gctctcctcc | ctcctgtccc | tgctgctctt | tgctgggatg  | 180 |
| cagatgtaca | gccgtcagct  | ggcctccacc | gagtggctca | ccatccaggg | cggcctgctt  | 240 |
| ggttcgggtc | tcttcgtgtt  | ctcgtcact  | gccttcaata | atctggagaa | tcttgtcttt  | 300 |
| ggcaaaggat | tccaagcaaa  | gatcttccct | gagattctcc | tgtgctctct | gttggtctctc | 360 |
| tttgcatctg | gcctcatcca  | cagagtctgt | gtcaccacct | gcttcatctt | ctccatgggt  | 420 |
| ggtctgtact | acatcaacaa  | gatctcctcc | acctgtacc  | aggcagcagc | tccagtctctc | 480 |
| acaccagcca | aggtcacagg  | caagagcaag | aagagaaact | gacctgaat  | gttcaataaa  | 540 |
| gttgattctt | tgtaaaaaaa  | aaaaaaaaaa | aaaa       |            |             | 574 |

&lt;210&gt; 71

&lt;211&gt; 932

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (884)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 71

|            |             |             |             |            |            |     |
|------------|-------------|-------------|-------------|------------|------------|-----|
| tcacatata  | caaagttttt  | cgtcacactg  | cagggttgaa  | accagaagtt | agttgctttg | 60  |
| agaacataag | gtcttgtgca  | agaggagccc  | tcgtcttctt  | gttccttctc | ggcaccacct | 120 |
| ggatctttgg | ggttctccat  | gttgtgcacg  | catcagtggt  | tacagcttac | ctcttcacag | 180 |
| tcagcaatgc | ttccagggg   | atgttcattt  | ttttattcct  | gtgtgtttta | tctagaaaga | 240 |
| ttcaagaaga | atattacaga  | ttgttcaaaa  | atgtccctctg | ttgttttgga | tgtttaaggt | 300 |
| aaacatagag | aattggtggat | aattacaact  | gcacaaaaat  | aaaaattcca | agctgtggat | 360 |
| gaccaatgta | taaaaatgac  | tcaccaaatt  | atccaattat  | taactactag | acaaaaagta | 420 |
| ttttaaatca | gtttttctgt  | ttatgctata  | ggaactgtag  | ataataaggt | aaaattatgt | 480 |
| atcatataga | tatactatgt  | ttttctatgt  | gaaatagttc  | tgtcaaaaat | agtattgcag | 540 |
| atatttgga  | agtaattggt  | ttctcaggag  | tgatatcact  | gcacccaagg | aaagattttc | 600 |
| tttctaacac | gagaagtata  | tgaatgtcct  | gaaggaaaac  | actggcttga | tatttctgtg | 660 |
| actcgtgttg | cctttgaaac  | tagtcccccta | ccacctcggt  | aatgagctcc | attacagaaa | 720 |
| gtggaacata | agagaatgaa  | ggggcagaat  | atcaaacagt  | gaaaaggga  | tgataagatg | 780 |
| tattttgaat | gaactgtttt  | ttctgtagac  | tagctgagaa  | attgttgaca | taaaaataag | 840 |
| aattgaagaa | acacatttta  | ccatttaaaa  | aaaaaaaaaa  | actngagggg | ggcccgggac | 900 |
| ccaaatcgcc | gcatagtgat  | cgtaaacaat  | ct          |            |            | 932 |

<210> 72  
 <211> 996  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (584)  
 <223> n equals a,t,g, or c

<400> 72  
 cgccctggcac catgaggacg cctggggcctc tgccctgtgct gctgctgctc ctggcgggag 60  
 cccccgcgcg gcggcccact cccccgacct gctactcccg catgcggggcc ctgagccagg 120  
 agatcaccocg cgacttcaac ctccctgcagg tctcggagcc ctccggagcca tgtgtgagat 180  
 acctgcccag gctgtacctg gacatacaca attactgtgt gctggacaag ctgcgggact 240  
 ttgtggcctc gcccccggtg tggaaagtgg cccaggtaga ttccttgaag gacaaagcac 300  
 ggaagctgta caccatcatg aactcgttct gcaggagaga tttgggtattc ctgttggatg 360  
 actgcaatgc cttggaatac ccaatcccag tgactacggt cctgccagat cgtcagcgct 420  
 aagggaactg agaccagaga aagaacccaa gagaactaaa gttatgtcag ctaccagac 480  
 ttaattgggc agagccatga cctcaccagg tcttgtgta gttgtatctg aaactgttat 540  
 gtatctctct accttctgga aaacagggct ggtattccta cccnggaacc tcctttgagc 600  
 atagagttag caaccatgct tctcattccc ttgactcatg tcttgccagg atggttagat 660  
 acacagcatg ttgatttggt cacctaaaaa gaagaaaagg actaacaagc ttcactttta 720  
 tgaacaacta ttttgagaac atgcacaata gtatgttttt attactgggt taatggagta 780  
 atggtacttt tattctttct tgatagaaac ctgcttacat ttaaccaagc ttctattatg 840  
 cctttttcta acacagactt tcttcaactg ctttcattta aaaagaaatt aatgctctta 900  
 agatatatat tttaygtagt gctgacagga cccactcttt cattgaaagg tgatgaaaat 960  
 caaataaaga atctcttcac atgaraaaaa aaaaaa 996

<210> 73  
 <211> 785  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
 ggcacgaggg gctttgcgta cacaatagct gctaggagta cccaaagcct gartacarcc 60  
 tgctgggtgc atggccacgt gtgagcaggc cagcgtcama cggctcgctg tgaccogtcc 120  
 cgragactga aatgggcctg ggtcttctcc tkgtcctgtg atwaaagtcc tctcttgaaa 180  
 gtggagagca aaggcacaca gaggtgcgcg ctcaacaaga ttcctcccg tgactgggta 240  
 atcaatgtta ctgctgtttc ctttgcagga aagaccacag caagattctt tcattcgtct 300  
 cctcctagcc tgggggacca ggctcgaact gaccctggac atcaaaggag ggattatgtg 360  
 gctgctaaag ccatcgggcc acagccctgt tcacrtcttg gtgcttctct tcccagagg 420  
 ctgggtcccag ccaggcacac acaaaaggca gattctcgta aacscagcct cctccctgg 480  
 aggtgcctc ctgcccctgga tctggagtgg agctgctctg agattttgag ttcttctgca 540  
 gagatgatta aatatatcca agagacattg gaaaacctgc tgaacatttt acattgggtc 600  
 gctcagcaca tggctggatg cggatatttc tataattcca gaaagtcaca cagctcctct 660  
 gtatgagacc agtgggcgcc atttaaaaga acaggatgag aatctaagat atattattaa 720  
 taaatgtaat ggattttttt tttgtaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780  
 aaaaa 785

<210> 74  
 <211> 1069  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (92)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (886)  
 <223> n equals a,t,g, or c

<400> 74

|             |            |             |             |            |             |      |
|-------------|------------|-------------|-------------|------------|-------------|------|
| tcctcaccat  | tcccctaggn | caggctccctg | caggctccac  | acttctccca | ggctccctaaa | 60   |
| cttgggtcgg  | tcctttccct | ggagtagctg  | gntcctccag  | tcgaggctcc | tggtcagtcg  | 120  |
| gttcttaggc  | tcctgcacat | gaagggtgtg  | gcctgtgggtg | tgtgggctgc | tctaggagca  | 180  |
| gatacaggct  | ggtatagagg | atgcagaaaag | gtagggcagt  | atgtttaagt | ccagacttgg  | 240  |
| cacatggcta  | gggatactgc | tcactagctg  | tggaggctct  | caggagtggg | gagaatgagt  | 300  |
| aggagggcag  | aagcttccat | ttttgtcctt  | cctaagacct  | tggtatttgt | gttatttctt  | 360  |
| gcctttccga  | gtcctgcagt | gggctgccct  | gtaccctgaa  | cctcatgagc | ctctaaggga  | 420  |
| aaggagggaac | aattaggacg | tggcaatgag  | acctggcagg  | gcagartaca | agcccagcac  | 480  |
| cagtgtccca  | gccttactgg | gtccttacct  | tgggccaaac  | agggagggtc | gatacctcct  | 540  |
| tgctcttctt  | agatgccccc | ctcctacaat  | ctcagccccc  | aagtcctctc | caccctaggg  | 600  |
| ggcttgctgc  | atggcaataa | ctcataatct  | gatttgaggg  | tttgcccttt | acaggggcag  | 660  |
| attttctgct  | cagttcaaca | atgaaatgaa  | gaggaaactcc | ctctttctac | agctcacttc  | 720  |
| tatcagaggc  | ccagggtgct | cagagccaca  | ttgagttgct  | ttttctggga | tgaggaagta  | 780  |
| gggttaaact  | ccccagtttc | ctgagggagg  | ctcctgacag  | gtgccctttg | tcagacccta  | 840  |
| ccacagcctg  | gataggcagc | cacattgggtc | ctcgcccttg  | ctcggnactc | cgtgggtggtc | 900  |
| ctgcccttct  | ccctgcatgc | ctgtgggtct  | gctctgggtg  | gtgaagggtc | gtgggttaac  | 960  |
| tgtgtgccta  | ctgaacctgg | caaataaaca  | tcacctgca   | aagccaaaaa | aaaaaaaaaa  | 1020 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa |             | 1069 |

<210> 75  
 <211> 831  
 <212> DNA  
 <213> Homo sapiens

<400> 75

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggacattaga | tcactgtgga | cctaaaaaca | acaaacaact | ataaggaaaa | tggcattaga | 60  |
| aatggtctgg | ggatcagttt | atcactgcag | ttgttacatc | accccatggt | ctaaaataca | 120 |
| gagctttagt | ctgtctctgt | ttcagttcat | tttacaggag | gtgaacatca | cacttccaga | 180 |
| aaactctgtc | tggatatgaa | ggtataaatt | tgatattcct | gtctttcact | tgaatggcca | 240 |
| gtttctgatg | atgcacgcag | taaacacctc | aaaacttgaa | aaacagctcc | tgaacttga  | 300 |
| gcagcaaatg | actggargct | gactgatgcc | ctcatgattt | tccacctctc | cttcccataa | 360 |
| agcatcttcc | taaggaaatg | amcatggcct | gatactcatt | ttgtcacttg | tacagagccc | 420 |
| taaggatggt | ctgaattcag | tggtgccaaa | taaatgttga | cattccccct | ttgggtgatg | 480 |
| gaagtatcag | tgtgggaact | gtttgcttaa | tggcatttta | taaaataaka | akakcatatt | 540 |
| agcagggagg | gagatgatgg | agggagggag | aagtccattt | gtcttattta | tcctttttgt | 600 |
| attaatagag | aagcacttca | cagtcactgg | caatgccatt | tataggaaga | aggttctgca | 660 |
| ttcctgctgc | tcocggaggg | cttaactttt | taatgaaaga | ataaatgctc | ttccactcag | 720 |
| tagataaagt | gaaatgtgaa | ttgttaataa | ctgtgcacgg | tcaataaagc | gatgttttaa | 780 |
| ggaatacaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaactcg | a          | 831 |

<210> 76  
 <211> 590  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (27)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (30)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (35)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (76)  
 <223> n equals a,t,g, or c

|            |            |             |            |             |            |  |     |
|------------|------------|-------------|------------|-------------|------------|--|-----|
| <400> 76   |            |             |            |             |            |  |     |
| tatatataga | cngttaatag | tcgtgantgn  | tgtgnacgaa | cattaacgga  | agtagcatgt |  | 60  |
| agccagtcga | ataacntata | aggacaaagt  | ggagtccacg | cgtgcggcgcg | tctagactag |  | 120 |
| tggatcccc  | ggctgcagga | ttcggcacga  | gctgccaggt | gaggagcaga  | gagactgttc |  | 180 |
| ccttgggtgg | agaggtgtgg | gcatgagagc  | caccattgc  | caagcagcaa  | gaatgttcgt |  | 240 |
| gcttttttcc | cttccaaaat | atgcagggtc  | caggctccca | attccggggc  | tgtctgcttt |  | 300 |
| gcttgtgttt | ctcctgtccc | tggtctcccg  | gagggcccag | gtggaactca  | cgacagggag |  | 360 |
| ggagacgctt | cccaaaaacc | tgacgggcta  | tttcccagaa | tttggttttc  | aagtacaaaa |  | 420 |
| ctttttgtcc | tgtaagatat | atgcagcctc  | acagaagcag | cctctgcctc  | cactttacca |  | 480 |
| gctacgtttt | tatcttaagc | acatggggct  | cccttagaac | ttactccact  | gatttaaaaa |  | 540 |
| aaaaaaaaaa | aaactcgagg | gggggcccgcg | taccatttcg | ccctaaaagt  |            |  | 590 |

<210> 77  
 <211> 1274  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |  |     |
|-------------|------------|------------|------------|------------|------------|--|-----|
| <400> 77    |            |            |            |            |            |  |     |
| gagccaccac  | acctggcctg | gaaggaacct | cttaaaatca | gtttacgtct | tgtattttgt |  | 60  |
| tctgtgatgg  | aggacactgg | agagagtgtc | tattccagtc | aatcatgtcg | agtcactgga |  | 120 |
| ctctgaaaat  | cctattggtt | cctttatttt | atttgagttt | agagtccct  | tcrgggtttg |  | 180 |
| tattatgtct  | ggcaaatgac | ctgggttatc | acttttccct | cagggttaga | tcatagatct |  | 240 |
| tggaaactcc  | ttagagagca | ttttgctcct | accaaggatc | agatactgga | gccccacata |  | 300 |
| atagattttca | tttactcta  | gcctacatag | agctttctgt | tgctgtctct | tgccatgcac |  | 360 |
| ttgtgcgggtg | attacacact | tgacagtacc | aggagacaaa | tgacttacag | atcccccgac |  | 420 |
| atgcctcttc  | cccttggaac | gctcagttgc | cctgatagta | gcattgttct | gtttctgatg |  | 480 |

|            |             |             |             |            |             |      |
|------------|-------------|-------------|-------------|------------|-------------|------|
| tacctttttt | ctcttcttct  | ttgcattcagc | caattcccag  | aatttcccca | ggcaatttgt  | 540  |
| agaggacctt | tttgggggtcc | tatatgagcc  | atgtccctcaa | agctttttaa | cctccttgtc  | 600  |
| ctcctacaat | attcagtaga  | tgaccactgt  | cattcctagaa | ggcttctgaa | aagaggggca  | 660  |
| agagccactc | tgcgcacaaa  | agggttgggt  | ccatcttctc  | tccgaggttg | tgaaggtttt  | 720  |
| caaattgtac | taataggstg  | gggcccgtgac | ttggctgttg  | gctttgggag | gggtaagctg  | 780  |
| ctttctagat | ctctcccagt  | gaggcatgga  | gggtgtttctg | aattttgtct | acctcacagg  | 840  |
| gatgttgtga | ggcttgaaaa  | ggtcaaaaaa  | tgatggcccc  | ttgagctctt | tgtaagaaag  | 900  |
| gtagatgaaa | tatcggtatg  | aatctgaaaa  | aaagataaaa  | tgtgacttcc | cctgctctgt  | 960  |
| gcagcagtcg | ggctggatgc  | tctgtggcct  | ttcttgggtc  | ctcatgccac | cccacagctc  | 1020 |
| ccaggaacct | tgaagccaat  | ctgggggact  | ttcagatgtt  | tgacaaagag | gtaccaggca  | 1080 |
| aacttcctgc | tacacatgcc  | ctgaatgaat  | tgctaaattt  | caaaggaaat | ggaccctgct  | 1140 |
| tttaaggatg | tacaaaagta  | tgtctgcac   | gatgtctgta  | ctgtaaattt | ctaattttatc | 1200 |
| actgtacaaa | gaaaaccct   | tgtatttta   | ttttgtatta  | aaggaaaata | aagttttgtt  | 1260 |
| tgtaaaaaa  | aaaa        |             |             |            |             | 1274 |

&lt;210&gt; 78

&lt;211&gt; 1133

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 78

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| aggatttttc | cttgttcaac | caaaaatctga | gcattotttc | tatgttgaaa | acactgaaaa | 60   |
| actaatttwa | gttaatgaac | tagaaaagaat | attgattttw | aagaaacaga | aaaatactac | 120  |
| ttattttcct | tctcaaataa | cgtttctttc  | aaaaacttct | ggctgaagta | taacatgctg | 180  |
| gtagttaaca | taaactctgt | ctttctcttg  | ttctttatct | ttctttgtta | tttagatgct | 240  |
| tgtataaatg | tcttttgttt | ttattaagtg  | cctaattgac | agagcttaat | ttgaagaagt | 300  |
| gccctaattt | attgaccact | taagaattgc  | ctttattggg | gtattttatt | tgttcctgcg | 360  |
| tctttttgat | gttgttcagt | ctactcatcc  | ctgtgagtat | gtgtggggga | cagctgatag | 420  |
| aagggaggag | agtgtgtcta | tgtcaggat   | tgccctttag | ccactcagcc | agagatccac | 480  |
| aggagcaac  | aaggacagtt | tcacatgctt  | agactttctt | ggaagaaaca | gtgaggagga | 540  |
| gtaagtcgtg | agtagtgtca | agctggatgt  | agaattgtcc | taaggcagtt | gacccacct  | 600  |
| tccaacatgt | tttcacttta | tttgcccctc  | cctacatttg | ggttaggttc | catttggatt | 660  |
| tgcagcaata | atgactttat | ttctctcttg  | gtcaggattt | ggcacataaa | atccttttat | 720  |
| tatagaacta | gctattttag | ttacatagta  | atgtaactaa | tggagagatt | tatagagaat | 780  |
| tttgkttttg | ctgtcatata | tgtccatttt  | ggagacagat | atgatagaac | tagaaattaa | 840  |
| gttgcatttc | tgcaagtgcc | atttgaatga  | acttcaagta | tcttcttaat | tattaaattt | 900  |
| tctgatgaag | gcattgtaac | aaatatatag  | tattattaaa | tctaattaat | atttggaaat | 960  |
| attaataaat | aggtattttc | tttactgtaa  | aaagtcaaac | ttcattatgt | agataaatct | 1020 |
| tattcttttc | attctttccc | ctgtttacat  | cctttttaca | aagcttagtc | accaattaaa | 1080 |
| gctttcctat | caaaaaaaaa | aaaaaaaaaa  | actcgagact | agttctctct | cct        | 1133 |

&lt;210&gt; 79

&lt;211&gt; 661

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgaggggaaa | aggatgctga | acgagagcag | aaagcctctt | tcctttgctt  | 60  |
| cacgcctttc | cagtctttat | tttaaactcg | ggttcccttt | ctgtgggtgc | agcaaccttt  | 120 |
| actccacctg | cactgctgct | cctgggggct | ccccaggcct | ccctctgect | ttctaccag   | 180 |
| tggctgacgg | gatgcctgtc | ttgcctggac | gcaccactgc | tctcctgtcc | ctcaccttgg  | 240 |
| cttttgctgt | gccctgctct | gggggtgaag | ctggcccatg | tgtcccccg  | agtcattggct | 300 |
| gctcctcctg | ggaggcctct | gtgtgcgtca | cgtcttocac | acctgggggc | agctggcgag  | 360 |
| cccgtgctct | gttcccctcg | gctgcttggc | acagagytgc | agcctgggag | tctccgtgga  | 420 |
| cccagactgg | ggatttttgc | aggggggcga | tgggaggagc | aggtgctttg | cctggcggt   | 480 |
| gtgtctgcat | ttctggacgc | cccagagcac | agaagttgcc | ggcactttga | ggtcttctct  | 540 |

```

ggcatgtgcc agattacatg agtgacggct gggaatatgt tttctttttt gtaatggagg 600
cgtgtttcac atatagtaaa gctcaccaaa aagtaaaaaa aaaaaaaaaa aaaaaactcg 660
a 661

```

```

<210> 80
<211> 1378
<212> DNA
<213> Homo sapiens

```

```

<400> 80
agacgtgaaa catgtgaaca ctcaagtga gcaaaagcct tccatgatta cccttttatg 60
tcacctcggt accctggagg tccaaggccc ccattgagga tacctaata ggcacttgga 120
ggtgtcccag gaagtcagcc attactcccc agtggaatgg atccaactcg acaacaagga 180
catccaaata tgggtgggccc aatgcagaga atgactcctc caagaggaat ggtgccctta 240
ggaccacaga actatggagg tgcaatgaga cccccactga atgctttagg tggccctgga 300
atgcctggaa tgaacatggg tccaggtggg ggtagacctt ggccaaaccc aacaaatgcc 360
aattcaatac catactcctc agcatctcct gggaattatg taggtcctcc aggaggtgga 420
gggccaccag gaacacccat catgcctagt ccagcagatt caaccaactc tggtgataac 480
atgtatactt taatgaatgc agtacctcct ggacctaaca gacctaat tccaatgggy 540
cctgggtcag atggtcccat ggggtggatta ggaggatgg agtcacatca catgaatggc 600
tctttaggct caggagatat ggacagtatt tccaagaatt ctccaataa tatgagcctg 660
agtaatcaac cgggcactcc aagggatgat ggcgaaatgg ggggaaat tctaaatcct 720
tttcagagtg agagttactc ccctagcatg acaatgagcg tgtgatccat taccaagtct 780
cctcatgaaa accacagtga gtcagccctt cacagaacta ctacggaaga aaattattca 840
tcacagtgt cagttaaaca aaggaatctc agtcacacca aaccaacctt tttatttcct 900
gctctctccc ctcttttgtg aagaaagcgg gtccaaatgt gattcaaaca actgtacgga 960
gtggcatatt agaattgccc taaactgaac tgcaataat tatgtgtgta tgtatatgtg 1020
tgggaaagag aatgtactgt atatgtgtat gttatacaga catatacaca tacatacatt 1080
gaccacagg acattgtaaa atattatcac atgacatctt aagtagaaat aagtagggac 1140
ttttattcca tctttttttt cacttttaca ttttaattat tacaagttgc tctgcccccc 1200
tccttgaact attttgtgct gtgtatatca ctgctttata taagttat ttaaggtga 1260
actcagatgt tatggttttg taaatgtctg caatcatgga taggaataaa atcgcttatt 1320
tgagagcttt cattaaaaaa aaaaaaaaaa aacttcgagg gggggcccgg tacccaat 1378

```

```

<210> 81
<211> 1440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (38)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1128)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE

```



<222> (1129)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1440)  
 <223> n equals a,t,g, or c

<400> 81

|             |            |             |             |            |            |      |
|-------------|------------|-------------|-------------|------------|------------|------|
| actttgtcca  | aatgtgtctg | tcacatgtag  | tcagctgnag  | naatttaaaa | tgaattgcc  | 60   |
| agtgaagagt  | ctgtggatta | attggcgtt   | aattaacagg  | ctttatcaat | gtgtcctcaa | 120  |
| gggagaggcc  | caacccta   | taaggagcta  | aacttcctga  | gtgaggggct | gtgaggatgg | 180  |
| agggtggagga | ggcatctggg | gcgggtggtg  | gccggggccag | cagatggcgc | ctccctggct | 240  |
| gagctgccc   | caccgccagt | tcctcatatt  | ccactcagga  | aggcagagaa | ggcagagtga | 300  |
| tctcctcaag  | gaagagcttc | cccagccttc  | gggagcagct  | ggcagggcgt | ccgggaataa | 360  |
| gccctacacg  | ccgccgcctg | cctccaactc  | actaaccctg  | cgctcttgt  | ctttcagatt | 420  |
| caacgcgttc  | aacagaagcc | atccccagcc  | cagcttaaat  | tataaagata | gacaataact | 480  |
| ctgttccaat  | ctgcgtggtg | cttcttttagt | aaatactgta  | cagattttac | catggagaac | 540  |
| ttttttttta  | gtttttacct | tttcttaatt  | acccttattc  | cgaatggacg | aacactttct | 600  |
| accactgctg  | accattgtaa | aataccgtgt  | atataaatcc  | cattgaaata | atgccctgga | 660  |
| atagaacatc  | tcaaatgctg | cttaattaca  | gactcagggtc | gattacttgt | atttcattga | 720  |
| atgttctctc  | aagttagaca | tctggtgcaa  | gaccaaccgg  | gagaccatgg | aattgtcaaa | 780  |
| agtacaaact  | gacagtgtgt | atatttaatt  | taaagactta  | tttāaaaact | cacaagctct | 840  |
| cacctagact  | ttggagagca | gtctgttttc  | tgtaatgtct  | gatactagaa | actaatttgc | 900  |
| ttatttttagt | tgtattcaag | atttgaagat  | gtattttata  | gacaagttct | gtttttgaac | 960  |
| tttgtggaac  | tgttccaatc | aatcaatttc  | ccagttatga  | tgagtattta | cattatgaat | 1020 |
| gtataaacc   | gacatgattt | gtaaagccga  | cagtatgttt  | ctattacaca | acactttttg | 1080 |
| atacagcgtc  | tcttgtcttc | actgatactg  | gagtctccgt  | tgtctgcnng | gtcccttcga | 1140 |
| gtttctagtt  | acagacacaa | tcatactgtg  | attttatttt  | taatatggat | atgctatcaa | 1200 |
| actgtgatac  | acttataact | cactggtcct  | gcacaggag   | atggagtggg | gaaaactgta | 1260 |
| tttaatacag  | tttgtatctg | aataatctgt  | atggtttata  | cagtttgtgt | tgttcagaga | 1320 |
| tgtttaaggt  | ttgatctttg | tttttctaaa  | gattaaaaaa  | gcacttgccc | cactgtaaat | 1380 |
| atacagcatg  | taaaatttct | rtagtatata  | aatggcagca  | aatcacaaaa | aaaaaaaaan | 1440 |

<210> 82  
 <211> 1381  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1379)  
 <223> n equals a,t,g, or c

<400> 82

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| cccgggctgc | aggaattcgk  | yacgaggcca | gcagttgctc | ccagttcagg | agggtgctct | 60  |
| gtaccctggc | cacagcccaa  | tcctgccact | gctgacatct | ggggagactt | taccaaactc | 120 |
| acaggatcaa | cttcagcca   | gaccagcca  | ggcacaggct | gggtccagtt | ctgacctgag | 180 |
| cacggttttt | cctcatgtga  | cttctgggaa | ggcgtccct  | catctgggcc | aaaggaagga | 240 |
| ggacgaagcc | ctcctcagct  | ggcctgtgtt | tggggcatga | atctctctc  | tctccttgt  | 300 |
| ctggctctgt | tgacaaaccg  | ggcatgtttg | gcagtaaat  | ggcacctgtg | cacactgttt | 360 |
| cctgggattc | aagtatgcaa  | ccagaacaca | ggagaagaaa | agctccagga | tcctgtccc  | 420 |
| catctgtcct | cttgatgtga  | gagagactct | gagacttctt | ccatcgcaat | gacctgtatt | 480 |
| aaacacaagc | cccccaagca  | aaagaagagg | ttgagtttgc | tgccaggatt | cagatcagcc | 540 |
| cttcccagg  | tctgcagggtg | tcacatgatc | acagttcagc | gggaggcttt | ccgtaccac  | 600 |
| actggctgta | gcacttcagt  | ccatctgccc | tcagaggag  | ggtttcttcc | tgatttttag | 660 |
| caggtttaga | ggctgcagct  | tgagctacaa | tcaggaggga | aattggaagg | attagcagct | 720 |

|             |             |            |             |            |            |      |
|-------------|-------------|------------|-------------|------------|------------|------|
| tttaaaaaatg | tttaaatatt  | ttgcttttgc | aatgtgctga  | tccgcactaa | ctcatctttg | 780  |
| caaaaaggaac | tgtccctcgc  | gcgtgcccc  | gctggggcct  | ctgaagggat | tcctcactgt | 840  |
| gggcagctgc  | cctgagcttc  | aggcagcagt | gttcactctc  | ggccagttgt | ctggtttcca | 900  |
| tgtattctag  | gccaggtagg  | caacacagag | ccaaggcggg  | tgctggaagc | cagacggaac | 960  |
| agtgttgggg  | caggaagggtg | gatgctgttg | tcattggagct | gtgggagttg | gcactctgtc | 1020 |
| tgctggtggc  | cctctcggct  | cacatgttca | cagtgcagct  | cctggcagac | ttgggttttc | 1080 |
| tctttggtgg  | tttctaaagt  | gccttatctg | caaacaactt  | cttttctcct | tcaggaactg | 1140 |
| tgaatggcta  | gaagaaggag  | ctcagtaaac | tagaagtcca  | gggttgcttg | gtttactggt | 1200 |
| ttataagaaa  | tctgaaagca  | cctctgacat | tcctttttatt | aactcacctc | tcagttgaaa | 1260 |
| gatttcttct  | ttgaaagggtc | aagaccgtga | actgaaaaaa  | gtgttgccct | ttttgcggga | 1320 |
| ccagattttt  | aagataaaat  | aaataatttt | acttctgtca  | aaaaaaaaaa | aaaaaaatnt | 1380 |
| c           |             |            |             |            |            | 1381 |

&lt;210&gt; 83

&lt;211&gt; 1706

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens.

&lt;400&gt; 83

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| actgcaccac  | tgcccagggtc | tcccggctgg  | atgaagacgt  | gggtccatgag | gaagctggct  | 60   |
| agctcagact  | ggagagtagc  | ttcaggaaaa  | aagacaagtg  | gcctaaggaa  | atcacggccc  | 120  |
| ccaactatca  | tctgagggct  | aaagatgaga  | agtagatcac  | ttaataagac  | aaaagcctgt  | 180  |
| agggggaaaa  | gaaaggatgt  | ttaaaaggac  | agaatgtttc  | ccaaggtaga  | aatgacactg  | 240  |
| tcaattttctc | cttgggaatgg | gggcagggat  | actcgccctg  | ttgtctccac  | ttgagtcagt  | 300  |
| actcacctgc  | tcctggatct  | cagtatccac  | atctgagagg  | caactctggc  | agagttcaca  | 360  |
| gaaggccacc  | attctgtccc  | tcaaactcga  | cagctgcttc  | tgtgggcaca  | gtggcttgaa  | 420  |
| ggggaagaat  | gaagacacag  | actcctctgt  | tcccattatc  | ccatctaaga  | cccacactca  | 480  |
| cctgggggaag | catctgattt  | agaaatgtgg  | gttagtgtcc  | agagaatgga  | aaaatagaca  | 540  |
| agagtcaagg  | ctggcaggat  | aacctgtaac  | aacaaagggt  | ttgaaaaatg  | aggtttgggt  | 600  |
| taggagaggg  | agagacagat  | agccagaaac  | acaccagtga  | agaggagaga  | aatgagtaa   | 660  |
| agggagagct  | aattcctttt  | ccagtggaaa  | atgagtgata  | ttctggacat  | tcttcagagg  | 720  |
| catctacacg  | aagtagaaat  | gtcaccgctc  | cctaattttac | tctacgtctt  | ctagaatccc  | 780  |
| tcaatattat  | ccttggcttc  | caggaatcc   | aagaagacct  | tggaagtaga  | gtccaccttc  | 840  |
| taagagagga  | atgtaagagg  | tgacccccac  | ccacctgac   | ttcctcgctt  | tgtccactcc  | 900  |
| acgcactgag  | acttgacaca  | cctagtggcc  | acctagaacg  | taggtcccta  | aaatytagcc  | 960  |
| ccccagcccc  | caaccatct   | ctagcctgtc  | cactcacctg  | gtgaggaacy  | tytctgtgt   | 1020 |
| ccacagcytt  | ctgcaggagt  | tggcaacatg  | gctcatagag  | ctcccagcga  | gtcagggtcat | 1080 |
| gagtgcctttg | ggggagaaaag | gggaatgtta  | tactggaaaa  | gaacagaggg  | aaccaactcc  | 1140 |
| acagacacca  | gtaaaaacgg  | gatgggggaag | aggaggaaag  | ccactcactt  | gtagaaggca  | 1200 |
| gagaggcggt  | tcagagtggc  | tgccagatta  | tatacctcat  | cctcatctag  | gaaggacgac  | 1260 |
| tgagaaggaa  | agaagatcca  | caatagcatt  | tccccagaa   | ctcatcagtc  | cacatcccc   | 1320 |
| gtcttgcagc  | ccctcccacc  | cttgtttggg  | gtgtccatt   | gtccagcccc  | agctcctacc  | 1380 |
| tgtaacagct  | cttcaagctc  | ctgctggaar  | cggtcagtc   | gcaaatctac  | tagctggctg  | 1440 |
| cgggcaaaagt | ccgcccggct  | gaagaaaagt  | aattcgggat  | tacagagcag  | gtaagagcat  | 1500 |
| gcgccccagc  | ctcaagcacc  | gctggctctg  | catgcttcac  | caccacctcc  | tggagtgtgt  | 1560 |
| gcaggaacag  | ctccagggtgc | tgagaagaaa  | aggcagaaga  | tggtgtgctg  | tggggatggg  | 1620 |
| aggaggacac  | tcttctggcg  | ggaagtggaa  | cggggttaaa  | agcattaaac  | ttcaaggata  | 1680 |
| agatgcctaa  | raaaaaaaaa  | aaaaaa      |             |             |             | 1706 |

&lt;210&gt; 84

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 84

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| gaattcggca | cgagcttggg | agccttagaa | ctgcatgagc | tgctttacca | ctgggaaaca | 60 |
|------------|------------|------------|------------|------------|------------|----|

|             |            |             |            |             |             |     |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| cgagcacagc  | ctagcttgat | tttgtatgtg  | gtatcagatc | taagggtggat | ggaattcagg  | 120 |
| acttccctgtc | tactctttga | ttttgtttta  | tttttagaaa | tgttttatnt  | tgttttatnt  | 180 |
| atttattcat  | cttcagagac | atggctctggc | tctgttgccc | aggatggagt  | gcatgggtgtg | 240 |
| atcataggcc  | actgcagtgt | tgagctcccc  | ggctcaggcg | atcctcctgc  | ctcagctycc  | 300 |
| ttagtagctg  | ggactatagg | cacatgocct  | accatgcctg | gctttgtcta  | ctttttgaat  | 360 |
| gatgtcycaa  | actagaaggt | ctattaattt  | aaaaaattaa | ggatagcatg  | ccataaattaa | 420 |
| aaataataac  | agtgggaaaa | ggcaccttcc  | aatgattcag | acatcaactt  | gtgatttaaa  | 480 |
| aaaacgaaaa  | ataaataata | ggaaaaaaag  | gggaaaaagt | taaataaaaa  | taaaattaaa  | 540 |
| aaaaaaaaaa  | aaaaactcga | ggggggcccc  | gta        |             |             | 573 |

<210> 85  
 <211> 684  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| <400> 85    |            |            |             |             |            |     |
| ctcttttggt  | gtgtctacct | ccttcatctg | ctggcgccgac | ataagcaccg  | ccctgcccct | 60  |
| aggctccagc  | cgtcccgcac | cagccccag  | gcaccgagag  | cacgagcatg  | ggcaccaagc | 120 |
| caggcctccc  | aggctgctct | ycacgtccct | tatgccacta  | tcaacaccag  | ctgcygccca | 180 |
| gctacttttg  | acacagctca | cccccatggg | gggcgctcct  | gggtgggcgtc | actccccacc | 240 |
| cacgtgcac   | accggcccca | gggccttgc  | gcctgggcct  | ccacacccat  | ccctgcacgt | 300 |
| ggcagctttg  | tctctgttga | gaatggactc | tacgctcagg  | caggggagar  | gcctcctcac | 360 |
| actggctccc  | gcctcactct | tttccctgac | cctcgggggc  | ccagggccat  | ggaaggaccc | 420 |
| ttaggagttc  | gatgagagag | accatgaggc | cactggggtt  | tccccctccc  | aggcctcctg | 480 |
| gggtgtcatcc | ccttacttta | attcttgggc | ctccaataag  | tgtcccatag  | gtgtctggcc | 540 |
| aggcccacct  | gctgcggtat | tggtctgtgt | gcgtgtgtgg  | gcacaggtgt  | gagtgtgtga | 600 |
| gtgacagtta  | ccccatttca | gtcatttcct | gctgcaacta  | agtcagcaac  | acagtttctc | 660 |
| tgaaaaaaaa  | aaaaaaaaaa | aaac       |             |             |            | 684 |

<210> 86  
 <211> 1036  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1020)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1024)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1032)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 86   |            |            |            |            |            |     |
| tggaggcaga | tgcacaggag | aaaggttccc | gtccgcaccc | tctcagaact | gaggctgagc | 60  |
| ttgcagttag | ggcttctcct | cggccccctg | cccgcaccca | gagctgccat | ccctgctgtt | 120 |
| acaagccaga | ggagcccggg | tgtgaggccc | cagatcacct | ccagggaact | ggggttccca | 180 |
| tctgaaatcc | tttatttttg | taccatgggg | tgggcccccg | gctgagaagg | aagaagcacc | 240 |
| ctctccccgg | cctcctctgt | ctgcacccgt | ggggctgtga | cttactcctg | cctccagggg | 300 |
| cggggcgggg | ccccctggga | cctcttaagg | cccaagggtg | gccccaggac | ctytgggcag | 360 |

```

agtggaytgc tcatggcaga tgtgtggcaa tgtctggctg wgtctttccg gcamctgcgt 420
yccctytccc gggytccctt gctgcatggt ggatgtgctc ctctctggcc cggtcacatt 480
gcctccttga gccttagtcc aggggggtcac tyctccacc ccacctacct cacagggttg 540
ttgtgagggg gcacagagga gcaaagtcoc tgaaggccct caggcagtat ataggggccg 600
cccaccttca gctgccctgg gatgggaagg acccagcccg acccctgggc ataacactgt 660
gtttgcaa at ggagattcag gtattgggga tgcaggttgt ggggagctgg cctggcagag 720
taggggtagt tggcttggcc ttctcttttg tgatccacc ccagccatt tgcattgctg 780
gccagcgcc tggcctgggg ggcggggaga ggcagcagaa ggggctgggc aggggcggtg 840
gaggactcag gaactgccc gggagagtgg gtatggcggc tgagccaggg gccctcctgt 900
gtttgacttc ccgggatggg tcttcttctc tcagctgtgt ccgacccac catgtaataa 960
aacccaaagg aacagcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
ccnngggggg gncccg 1036

```

<210> 87  
 <211> 908  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (805)  
 <223> n equals a,t,g, or c

```

<400> 87
ttaaacaat ggaatcatgc aatatgtgac cttttgcgtc tggcttattt tatttagcat 60
aatgtttttg aggttcatcc aagctgtagc atgtatcagc acctcatttc tttttctggc 120
tgaatattat tccattatat ggatttacca caattcattt acctattcat cttttgtttc 180
tgctgtctgg ctattgtgaa taatgcttcg ataaacattc atatacaagt ttctatgttg 240
ctttatgttt tcatttctct tggctatcta catgggagta gaattctagg tcataatata 300
attttatgtt taacttctca aagaattgcc aaaaggtttt tcatagtggc tgcattcattt 360
acattccac cggaatgta caaggatttc ttttttcca tatccttgca cttaccaaca 420
cttctttttk gtwatwattt tgttttttca ttattgccac cctagtggat gtgaaatggc 480
atcttattgt tttgatttgc atttctctaa tgacaaatga tatcatactt tttttatgtg 540
cttacggatc aaaggatatt ccttggagaa atgtcccttc aagtcctttg ccatttcaaa 600
atttggttat ttgtctttta ttattcagtt ttaagaaatt ctggccaggc gcagtggctc 660
acctgtaatc mtagcacttt gggaggccaa ggcgggcaga tcacttgagk tcaggacttc 720
gagaccagcc tggccaacat ggtgaaaccc catcttacta aaaatacaaa aattagctgg 780
gcgtgggtggc aggtgcatgt aatcntatct actcaggagg ctgaggcagg agaatcgctt 840
gaaccagga ggcggaggct gcagtgagcc aagatcacgc cattgcactc tagcctgggt 900
gacacaga 908

```

<210> 88  
 <211> 655  
 <212> DNA  
 <213> Homo sapiens

```

<400> 88
tgcactgggt ctttctcccc agcaaatact gccttcttgt ttttctctga tgtggcaggt 60
gactacaaaa tccgccttgg tattcttcaa atgcatatat attcctttct tgtcagctcc 120
ctctcttctt agattagaaa actgcctcat tttctgctca ctggatgtgc agtcccagct 180
tgttctctct tctctcccc ctggtgcagg tgttcttttt tttttctctc tctccccact 240
gggcagcaaa agttgtttcca cagtggaaaw ttaggcatcc tcaagtttcy tcccagcttc 300
tgctgtgttt ttttagagta aattgccaat ttctgttttt acaggaaatc cttttttaa 360
aatggaatca gtgtgggtcc catctactct gcaaaaattg catttttctc ttttttcaa 420
tgagatttgt tcaagtttca aaaccacgtg aaataataaa tgtatagtag ttttcttttc 480
cttgggcatt gctwgatatg tgaaatgggt ttatgaaaaa taataaaatc ataacgctat 540

```

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| ttgttttgact | ttcaatttca  | tgggaatttt | tctcagctaa | actctaaatg | gtgattargc | 600 |
| aaaaaaaaaa  | aaaaaaaaacy | graggggggc | cgggtaccaa | ttcgccctat | aatga      | 655 |

<210> 89  
 <211> 1102  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| <400> 89    |             |            |            |            |             |      |
| tttttttttt  | accatttaaa  | ataaaatgaa | agtgaccttc | tgtttataaa | aatctttgtc  | 60   |
| tgcattctctg | cttatttcct  | tagaagagat | tccaagaagc | ggtgagtgat | ttcacggcag  | 120  |
| cagagggttg  | ggacatatta  | cgggcgcgga | tccctcttgg | agtgagatga | ctctccggag  | 180  |
| agatttagtc  | gtcacccctcg | cgtgtgaggc | tgcgtcacac | cccagggatg | tgtctatcaa  | 240  |
| gatggaagat  | cttttacacg  | ctcttgattt | tgtttgcctt | tttttctatt | actagtgaga  | 300  |
| atgaaacttt  | ttatatgatt  | attatccatc | ataatccaac | acaaattact | gcttcatggt  | 360  |
| cttttacttt  | cctgtgaagg  | tttttagtgc | ttttaaaaat | tgctatatat | taagcttggt  | 420  |
| aataacttcca | tgctgtattt  | gtggccatca | gtttccccgg | gcacaggcct | gcacattttg  | 480  |
| ccttcacacg  | ctgggtgggt  | tttcattttc | acttctattt | ctcgttcttc | tatcgtttta  | 540  |
| tgttcagacg  | ggtttctccg  | tgtagaaagc | agtttatgaa | gatttacttt | cgacagtctt  | 600  |
| ctctctactt  | tctacagtga  | attctctgay | gtgtctggga | gtwtgggggt | ctgggtaaga  | 660  |
| rtctctctct  | caccctattc  | tctattacga | tccacagcct | catgctttat | garattgggtg | 720  |
| gcccggargc  | ggggagattt  | gcggatcccc | caagccagac | tttatcccc  | tatccctgcc  | 780  |
| tctggatccc  | acgtacaggc  | ctgggaactc | cctgtgggta | ggggccaatg | gtctcgcaat  | 840  |
| ctcacctgta  | ccccagggtc  | ggcacaggat | ggtcaaggag | agaggctgcc | caagcgcatc  | 900  |
| cytctgggtg  | ccccctgaca  | cgcctccaaa | gtgagcaggt | aggtttcaac | agccccacgt  | 960  |
| tgccaggtgg  | agatgaagct  | caggggtggg | accagtatct | cacagtcttc | tttgcattgg  | 1020 |
| cgggtacttg  | ttagtcaact  | gatcaagtga | aaattctagc | cccagaggca | ggagaatccg  | 1080 |
| gaacaaaatt  | aaaccagcca  | gg         |            |            |             | 1102 |

<210> 90  
 <211> 1533  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (123)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1522)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1527)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |             |    |
|------------|------------|------------|------------|------------|-------------|----|
| <400> 90   |            |            |            |            |             |    |
| ggcacgagcc | gncacgggca | gcgccccata | gcgccaggga | ccccctggca | gcggggagccg | 60 |

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| cggggtcgagg | ttatggatcc  | agcgggcggc  | ccccggggcg  | tgctccccgc  | gccctgccgg  | 120  |
| tgntctggtgc | tgctgaaccc  | gcggggcggc  | aagggcaagg  | ccttgccagct | cttcocggagt | 180  |
| cacgtgcage  | cccttttggc  | tgaggctgaa  | atctccttca  | cgctgatgct  | cactgagcgg  | 240  |
| cggaaccacg  | cgcggggaret | ggtgcgggtcg | gaggagctgg  | gccgctgggra | cgtctctggtg | 300  |
| gtcatgtytg  | gagacgggct  | gatgcacgag  | gtgggtgaacg | ggcttcatgg  | agcggcctga  | 360  |
| ctgggagacc  | gccatccaga  | agcccctgtg  | tagcctccca  | gcaggctctg  | gcaacgcsc   | 420  |
| ggcagcttcc  | ttraaccatt  | atgctggcta  | traggaggtc  | accaatgaag  | acctctgac   | 480  |
| caactgcacg  | ctattgctgt  | gcggccggct  | gctgtcacc   | atgaacctgc  | tgtctctgca  | 540  |
| cacggcttgc  | gggctgcgcc  | tctctctgt   | gctcagcctg  | gcctggggct  | tcattgctga  | 600  |
| tgtggaccta  | gagagtgaga  | agtatcggcg  | tctgggggag  | atgcgcttca  | ctctgggcac  | 660  |
| cttctcgct   | ctggcagccc  | tgcgacaccta | ccggggccga  | ctggcctacc  | tcctgtagg   | 720  |
| aagagtgggt  | tccaagacac  | ctgcctcccc  | cggtgtgggtc | cagcagggcc  | cggtagatgc  | 780  |
| acaccttgtg  | ccactggagg  | agccagtgcc  | ctctcactgg  | acagtgggtc  | ccgacgagga  | 840  |
| ctttgtgcta  | gtcctggcac  | tgctgcactc  | gcacctgggc  | agtgagatgt  | ttgctgcacc  | 900  |
| catgggcgcg  | tgtgcagctg  | gcgtcatgca  | tctgttctac  | gtgcgggcgg  | gagtgtctcg  | 960  |
| tgccatgctg  | ctgcgcctct  | tcttgcccat  | ggagaagggc  | aggcatatgg  | agtatgaatg  | 1020 |
| cccctacttg  | gtatatgtgc  | ccgtgggtgc  | cttcgccttg  | gagcccaagg  | atgggaaagg  | 1080 |
| tgtgtttgca  | gtggatgggg  | aattgatgg   | tagcgaggcc  | gtgcagggcc  | aggtgcaccc  | 1140 |
| aaactacttc  | tggatggcca  | gcggttgctg  | ggagcccccg  | cccagctgga  | agccccagca  | 1200 |
| gatgccaccc  | ccagaagagc  | ccttatgacc  | cctggggccgc | gctgtgcctt  | agtgtctact  | 1260 |
| tgcaggaccc  | ttctccttc   | cctagggctg  | cagggcctgt  | ccacagctcc  | tgtgggggtg  | 1320 |
| gaggagactc  | ctctggagaa  | gggtgagaag  | gtggaggcta  | tgctttgggg  | ggacaggcca  | 1380 |
| gaatgaagtc  | ctgggtcagg  | agcccagctg  | gctgggccca  | gctgcctatg  | taaggccttc  | 1440 |
| tagtttgttc  | tgagaccccc  | accccacgaa  | ccaaatccaa  | ataaagtgac  | attcccaaaa  | 1500 |
| aaaaaaaaaa  | aaaaaaaaaa  | ancccgnggg  | ggg         |             |             | 1533 |

&lt;210&gt; 91

&lt;211&gt; 575

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 91

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atcctctgga | atctaggtgg | aagccaccaa | gccttcttca | cacttgcggt | ctgagcatct | 60  |
| gcagacttaa | ccccatgtgg | caatcaccaa | ggcttatggc | ttgtgtcctc | cagaactgtg | 120 |
| gccagagctg | tacctggggc | cotttgagct | gaggctgaag | ccagagtctg | aagctcagca | 180 |
| gggcagtarg | gccctggggc | tgccccctga | aaccattctt | ttctcctaag | cctctggggc | 240 |
| tttgatggga | rgggctgtcc | tcaagatttt | tgaaatgcct | ttggagggtt | tttgccctgt | 300 |
| cttgatatt  | ggcttccttt | tagttatgct | catctctcta | gcaagtgaat | gtttcacaa  | 360 |
| ctgcttgat  | tcttctctta | ccacagarcc | aggctgcaaa | ttttacaaac | ttttacactc | 420 |
| tgtttccctt | ttaaataata | atttcaatgt | taagtcactt | ctttgtctcc | atatctgatt | 480 |
| taggttgctg | gaagtagcca | agtcacctct | tgaatgcttt | gctgcttaga | aatttctct  | 540 |
| actaggtagc | ctgggtcatc | acacttaagt | tcaaa      |            |            | 575 |

&lt;210&gt; 92

&lt;211&gt; 639

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (126)

<223> n equals a,t,g, or c

<400> 92

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| tcctttcatc | ttaagcacca | cccgacaggg | caggtactat  | taccatctcc | gtttgacaga | 60  |
| tnaggaacct | ggcacaggaa | gcatttaagt | ggattcccc   | ggatcgcccc | actgtcagga | 120 |
| gcagantcag | aatgggcctc | agcatcaggc | tcccaatcct  | ggcttctaac | tgctgcgctc | 180 |
| tgcccttcyc | tcwccccacc | tccccactcc | agtgcctttg  | gtcatgccac | tcagactttc | 240 |
| aggccaatac | tggattagcc | tcttagtggt | cttgteccctg | cagccatttc | cccaggcagc | 300 |
| aattccatgt | gccctcactg | atgtagggtg | ctcttggtgtc | atctgtcaca | tcctattgaa | 360 |
| ttgttttatg | atcttggttc | cactcacagc | accctccctc  | tcacacgtcc | tcctataaaa | 420 |
| aatgtccctc | agtgtctgct | atgagccagg | tcagacttta  | agtgcacagg | ctgctacggg | 480 |
| aaataaaaaa | ttaacaagga | gcacctgcct | cttaatgcac  | agtaacaaac | tatgttaagt | 540 |
| gtcaggaagg | aaaggttaag | gatgccagga | aggcttttaa  | taaataacct | gaattagatg | 600 |
| ggcaggtggg | gctgargatt | aagaacgtgt | tcttctcga   |            |            | 639 |

<210> 93

<211> 858

<212> DNA

<213> Homo sapiens

<400> 93

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ccccgggct  | gcaggaattc | ggcacgagag | tggtgggagt | ctggctgcag | aggggaagaca | 60  |
| tcagcaggga | gggagccagg | gcctgtcaca | tctttcctct | ggccattgtc | ctggtctttg  | 120 |
| taagcccaga | atctcccttt | cctgaagggt | aggccagcac | cccaggaggg | cagcagggtgt | 180 |
| gctgtgaggg | ttggagtagt | gtgagaggtc | agggtacact | agaatggcca | tggacaccat  | 240 |
| gtgggggtgc | tctgggctgg | gccacagaac | agtgtccttc | ctgctgctcc | tcccctgcag  | 300 |
| cttccccoga | ccttggtggt | tatttggttt | gataccaatc | agcagaccct | gcaaggtgga  | 360 |
| ggctcccagg | cctctcagtc | ccaccactct | catgtgccag | tcacccctac | tgtaactgcc  | 420 |
| caatgagtac | ttcttgccca | ctgccaagat | agagccagtt | taccaagaca | ggggaattgc  | 480 |
| agtagagaaa | gagttgaata | tacatagagc | cagctaaatg | ggagagtggg | gttttcttat  | 540 |
| tacttaaata | agcctccctc | aaaattcaga | ggtgagaatt | tttcaaggac | agtttggtgg  | 600 |
| gcagggccta | gggaatggat | gctgctgatt | ggctagggat | gcaatcatag | gggtgtagaa  | 660 |
| aaaggtcctt | tgcaactgag | ccacttttgg | gtgagagcta | ccaaggagct | gctggtctgc  | 720 |
| tggtcccgtt | agagccatct | ggtgtcagga | atgcaaaagt | gtggccaggc | acagtggccc  | 780 |
| acacttgtaa | tcctagcact | ttgggaggct | gaggcaggag | gaatgcttga | gcccaggagc  | 840 |
| tcgagggggg | gcccggta   |            |            |            |             | 858 |

<210> 94

<211> 526

<212> DNA

<213> Homo sapiens

<400> 94

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gcaggggaat | tcggccacgg | aggggtttca | acagggcccg | tgggtgagg  | tgcaracaca | 60  |
| aagcccataa | gtgctggcct | gttgggacaa | atgagagaaa | tcccataggg | tggtgatgac | 120 |
| agcgaytca  | gccatcytay | tcctggggaa | aatgaaacct | gtgctcttat | caaagtctca | 180 |
| gttgtaaaac | tggaaaaaaa | ttttagaaga | catcttgctc | agcatctgtg | tttatgtcta | 240 |
| taaaatgtag | aaaactaaag | cacagagatg | ttaaattgtt | tgtccaagg  | ccaacagctg | 300 |
| gttagcargc | ttggtctggt | gacctttcta | ctgaaccaca | gtgccgctgg | gggaagtctc | 360 |
| cagcacagat | ggctgctgct | atagctgggg | tatgggcagt | attagtagtt | aaccagtcaa | 420 |
| cccaagttcc | catagtctag | gttctgcttc | agctggaggt | tagggaaaaa | cacaagaaaa | 480 |
| tcctttacca | ctctaccagt | gctgggggat | gtactaagag | atcccc     |            | 526 |

<210> 95

<211> 426

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

```

ggcacagggc aggagagact tgggccatgg ggagaagcct gcagtataga tgggacctcc      60
aggagcccaa gtagcataga ccctgctgat ccggggccat tgagccagag gatttgggct      120
gaatgtcccc agagacaaaa gggaaaggta gatcctttcc cttaaagatg aaagccatcg      180
cccgggcttg cttattgctc tctctcctgg tccttccaca tgttgcttct gaacatttgt      240
tctggcatca caatccccgt catcctgtca tctggccctt ccacaccttc caccttatct      300
cttgacgtgt ctccgcgtcg acctggcacc tgggtgaarg cttgctcttg ctggtgocca      360
tagccccag  tgtatggtct tgamctcccc agccatatgg araccacct caggagggcc      420
cctcga                                           426

```

&lt;210&gt; 96

&lt;211&gt; 844

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (416)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (471)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (490)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (732)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (835)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 96

```

ggcacagcgg caccagatag gaagcttggc aggggagcct cccccagtgc gcattgccct      60
gtaactcgag cgccctgggag tggggagagg cttggaaatg gagcaggggtg gtggacctcg      120
tcttctoctg ctcatcccag gcctcctcca taacacctac ctagcacggc ctggggactt      180
cccagcccaa ggaacaactg agaatactga gtgccagggt agccctagcc ccatttcaca      240
cctgggcaaaa gtgaggtcac tggattcaaa cactcagatt taaacctcct ctgtgtctgc      300
agcacctgta tataactgcc agcctctgct gccctctcc aaaaagtctc tgcccttgtc      360
tttggcacct gtctctgtcc tccccattct ctgctcctcc tttctccaac tcagantcac      420
cctgttagtt cagcaaatgt tcatcgagct ccataatgta gcaggacagg nctgtotaac      480
agattctggg cttgcaaggg tgagacaagt actctccatc tttctctcat cttcacagat      540
ggtctgtctc acaactttgc actgaattgt aaataattga tactgcataa aacattgatg      600
ttctttaagg gtagtcacgc aagggtggca gtcttataat gataactgct caaggatctc      660
tcagtgaagc atttggggst gctagctctg cctatgggtg aggtcagcta tctcacgcca      720
tctacttcca cntgcccccc catgccaggc tcacctgag ctgagatgcc tgagcaggtg      780

```



gcagaaagga gccacctggg ttatgcttcg ggaccacaaa ctctctatc cagangacag 840  
 tttt 844

<210> 97  
 <211> 1985  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (332)  
 <223> n equals a,t,g, or c

<400> 97  
 agccctgctg aagtacaggt tcttctatca gtttctgttg ggcaatgaac gagcaacagc 60  
 aaaggagatc agggatgaat atgtggagac gctgagcaag atttacctgt cttactaccg 120  
 ctcttacctg gggcggtcga tgaagggtgca gtatgaggaa gtgcgtgaga aagatgatct 180  
 aatgggtgtg gaagatacag caaagaaagg attctyctca aagccatcgc tccgcagcag 240  
 gaacaccatt ttcacctag gaacccgcgg ctctgtcatc tccccactg aacttgaggc 300  
 ccccatcctg gtgcctcaca cagcgcagcg gnagagcaga ggtatccatt tgaggccctc 360  
 ttccgcagcc agcactacgs cctcctagac aattcctgcc gcgaatacct tttcatctgt 420  
 gaattttttg ttgtgtctgg ccagytgca cacgacctgt tccatgctgt catgggcccgt 480  
 acactcagca tgacctgaa acacctggat tcttatctag ctgactgcta cgatgccatt 540  
 gctgtttttc tctgtatoca cattgttctc cggttccgta acattgcagc aaagagggat 600  
 gttcctgccc tggacaggta ctggggaaca ggtgcttgcc ttgctatggc cacggtttga 660  
 actgatcctg gagatgaatg ttcagagcgt ccgaagcact gacccccagc gcctaggggg 720  
 gttggatact cggccccact atatcacacg ccgctatgca gagttctcct ccgctcttgt 780  
 cagtatcaac cagacaattc ctaatgaacg gaccatgcaa ttgctgggac agctgcaggt 840  
 ggaggtggag aattttgtcc tccgagtggc agctgagttc tctcaagga aggagcagct 900  
 tgtgtttctg atcaacaact atgacatgat gctgggtgtg ctgatggagc gggctgcaga 960  
 tgacagcaaa gaggttgaga gcttcacagc gctgctcaat gctcggacac aggaattcat 1020  
 tgaagagttg ctgtctcccc cttttggggg tttagtggca tttgtgaagg aggctgaggc 1080  
 tttgattgag cgtggacagg ctgagcgact tgcaggggaa gaagcccggg taactcagct 1140  
 gatccgtggc tttggtagtt cctggaaatc atcagtggaa tctctgagtc aggatgtaat 1200  
 gcggagtttc accaacttca gaaatggcac cagtatcatt caggggagcg tgaccagct 1260  
 gatccagctc tatcatcgct tccaccgggt gctgtcccag ccgcagctcc gagccctccc 1320  
 tgcccgggct gagctcatca acattcacca ccttatgggt gagctcaaga agcataagcc 1380  
 caactttctg tgtgccagaa accgccttga gatctgcccg tcatctccat ggacttctgc 1440  
 accccattcc atacccttct tcacctgggg tacccttcc agttttcccc ttgcttccc 1500  
 ggcccttgac atggccttacc tgccttcaact ccagcacct tgcccaacag gataagctgg 1560  
 atcccttggc ccttctgaat atcccagtgct ctccaggttt cccaagacca cttccctgtg 1620  
 ggcttccaaa atggccttta tcatttctcc agtctgtcac cctcctttcc tgctcccata 1680  
 cacccaaggc ttgtttcttc cctgttaaaa accactgcct caatctcttg ttcactcaac 1740  
 tagtcaccat gtcctgaggc atgaagcctc ctcagctctt ggaattgctg gcaaggggtg 1800  
 actgcctctg agtcattgtg tttttcaaag tgatttcttt tctgtagctt tttgacctaa 1860  
 gatctcagca atttgaacac taacctctcc cctcctggct caagaattac tccgaagtca 1920  
 gtctgcagaa aataaatatt tagtatgaca tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980  
 aaaaa 1985

<210> 98  
 <211> 1416  
 <212> DNA  
 <213> Homo sapiens

<400> 98  
 atatgaaggg aaagaatttg attatgtttt ctcaattgat gtcaatgaag gtggaccatc 60

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| atataaattg  | ccatataata  | ccagtgtatga | ccotttggtta | actgcataca  | acttccttaca | 120  |
| gaagaatgat  | ttgaatccta  | tgtttctgga  | tcaagtagct  | aaattttatta | ttgataacac  | 180  |
| aaaagggtcaa | atgttggggac | ttgggaatcc  | cagctttttca | gatccattta  | cagggtggtgg | 240  |
| tccgttatgtt | cggggtctct  | cgggatcttc  | taacacacta  | cccacagcag  | atcctttttac | 300  |
| agggtgctggt | cgttatgtac  | caggttctgc  | aagtatggga  | actaccatgg  | cgggagttga  | 360  |
| tccatttaca  | gggaatagtg  | cctaccgatc  | agctgcatct  | aaaacaatga  | atattttattt | 420  |
| ccctaaaaaa  | gaggctgtca  | catttgacca  | agcaaaccct  | acacaaatat  | taggtaaact  | 480  |
| gaaggaaactt | aatggaaactg | cacctgaaga  | gaagaagtta  | actgaggatg  | acttgatact  | 540  |
| tcttgagaag  | atactgtctc  | taatatgtaa  | tagttcttca  | gaaaaaccca  | cagtcacagca | 600  |
| acttcagatt  | ttgtggaaaag | ctattaactg  | tcttgaagat  | attgtctttc  | ctgcacttga  | 660  |
| cattcttcgg  | ttgtcaatta  | aacaccccag  | tgtgaatgag  | aacttctgca  | atgaaaagga  | 720  |
| aggggctcag  | ttcagcagtc  | atcttatcaa  | tcttctgaac  | cctaaaggaa  | agccagcaaa  | 780  |
| ccagctgctt  | gctctcagga  | ctttttgcaa  | ttgttttgtt  | ggccaggcag  | gacaaaaact  | 840  |
| catgatgtcc  | cagagggaat  | cactgatgtc  | ccatgcaata  | gaactgaaat  | caggagcaa   | 900  |
| taagaacatt  | cacattgtct  | tggctacatt  | ggccctgaac  | tattctgttt  | gttttcataa  | 960  |
| agaccataac  | attgaaggga  | aagcccaatg  | tttgtcacta  | attagcacia  | tcttggaagt  | 1020 |
| agtacaagac  | ctagaagcca  | cttttagact  | tcttgtggct  | cttggaacac  | ttatcagtga  | 1080 |
| tgattcaaat  | gctgtacaat  | tagccaagtc  | tttaggtgtt  | gattctcaaa  | taaaaaagta  | 1140 |
| ttcctcagta  | tcagaaccag  | ctaaagtaag  | tgaatgctgt  | agatttatcc  | taaatttgct  | 1200 |
| gtagcagtg   | ggaagaggga  | cggatatttt  | taattgatta  | gtgttttttt  | cctcacattt  | 1260 |
| gacatgactg  | ataacagata  | attaaaaaaa  | gagaatacgg  | tggattaagt  | aaaattttac  | 1320 |
| atcttgtaaa  | gtggtgggga  | ggggaaacag  | aaataaaatt  | tttgcactgc  | tgaaaaaaa   | 1380 |
| aaaaaaaaaa  | aaaaggaaac  | tcgagggggg  | gcccg       |             |             | 1416 |

&lt;210&gt; 99

&lt;211&gt; 1760

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (255)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 99

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| gccttcaact | cttgtttttat | tganttatga  | attcttaant | cttctatggc | aggagacac  | 60  |
| tatggggagg | ctttgtttgt  | tttttgagac  | agggtctcat | ttgtcgccca | gggtgagact | 120 |
| ctgtctcaaa | aaaataaaaat | aaaataaaaat | aaaaacaaag | aaaaaaaaat | aaaatcttta | 180 |
| ggcattccca | gacacaaaga  | tctcagagac  | agacaacaga | gagcytcgt  | gttcatctgc | 240 |
| ccgaggctgt | ttgtncacag  | ttcccttaaa  | agatgcctgg | aaatgctccc | aacaacaagg | 300 |
| gactcaagta | tggggctgag  | tttgttaaaa  | aagcagctaa | atgtgtttag | gaaacacacg | 360 |
| aagtgaacc  | agacagtgat  | ggcccatgta  | caagacttgt | gcttgaagct | ttggtgtgcc | 420 |
| tocatggcca | atttttcagg  | cacccaaacc  | cattctcgat | taattattgt | taaaaaagca | 480 |
| gctaaatgtg | tttaggaaac  | acacgaagtg  | aaaccagaca | gtgatggccc | atgtacaaga | 540 |
| cttgtgcttg | aagcttttgt  | gtgcctccat  | ggccaatttt | tcaggcacca | aaaccatttc | 600 |
| ctgattaatt | attgatatac  | aatgcaaac   | aaactatgaa | aacacagact | ttttttcaga | 660 |
| agagggaaat | aaaggcacag  | aaacctgcca  | aaatagatat | ttttttccat | aagaatagta | 720 |

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tggttgatta  | aaatagttta  | tcactagtaa  | aacttgatc   | actagagcag  | acaatacaaa  | 780  |
| ttagtTTTTT  | aaaaaatgac  | attcactgaa  | ttcttggtct  | gtgcattcaa  | tgtgaataat  | 840  |
| catcaaaaat  | atattacaat  | taaaggTTTg  | taaggagctc  | tgtctgggat  | ttctgcagta  | 900  |
| tattatttctg | gaggagaaga  | accaccataa  | agtatgagct  | atccactgtt  | cctttttatg  | 960  |
| tcattgtatgg | taatcagtct  | atctcctaatt | gcaggctcac  | aaacttccac  | ggtgagatgt  | 1020 |
| ctaagtgact  | tagtgacctt  | cacactcatt  | aaaggcagcc  | ctgtccatca  | aactccatac  | 1080 |
| ctagaaagtt  | caataaactg  | tattacattt  | taataaatat  | ktctgtgtac  | tttttgTTTT  | 1140 |
| ttgcttttaa  | gctcagctta  | aattttgtca  | aggaaacccat | ttcacaagac  | agtatgtcac  | 1200 |
| agcctactat  | cagcaatagt  | ccttgTTTTat | tagaatctgc  | agatgtccat  | attacatcaa  | 1260 |
| atataaatat  | atattataatt | tacatttccct | tcttagcttt  | caatttaggt  | gagtgtatTT  | 1320 |
| atagataatg  | ccactaacgc  | accactattc  | taatoctcag  | tgcaactcat  | accttctttc  | 1380 |
| cattagatgc  | tcattaatgt  | aagacagcat  | cttaaaaagag | gggtactgtt  | ctttttttaa  | 1440 |
| ataaaaggaa  | agaaagggaa  | tccaagaatg  | gaggtctaga  | catttctctaa | gagatttttg  | 1500 |
| ttttgTTTTT  | tatacttaga  | aatacttgaa  | aaatgtggtc  | cctttttgta  | gtactagtct  | 1560 |
| ctacttgggg  | acaagaaaat  | agaatatgca  | actcagaaag  | gaaagasccc  | aaagamgara  | 1620 |
| raacctgctt  | gtttactcca  | ttaacctgtt  | taattaagat  | ctgcttttaa  | atgcctgatg  | 1680 |
| ctgtgccagt  | atcatacaaa  | acatcttcca  | ccttccaagc  | agctgaagca  | cctcctcaaaa | 1740 |
| attctgtttg  | tcctgaataa  |             |             |             |             | 1760 |

&lt;210&gt; 100

&lt;211&gt; 599

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 100

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagcgtcca | cgcagccgcc | ggcgggccag | caccagggc  | cctgcatgcc | 60  |
| aggtcgTTTg | aggtggcagc | gagacatgca | cccgccccgg | aagctcctca | gcctcctctt | 120 |
| cctcatcctg | atgggcactg | aactcactca | agactccgct | gcccccgact | ccctgctgag | 180 |
| aagttcaaag | ggcagcacga | gggggtcttt | ggctgctatt | gtcatctgga | gggggaagag | 240 |
| tgagagccgg | atagccaaga | ccccaggcat | tttcagaggt | ggcgggacct | tagtcttacc | 300 |
| cccaacacac | acccctgagt | ggctcctcct | ccctttgggc | ataacgctgc | ccttgggggc | 360 |
| tccagaaaca | ggcgggtggg | attgtgccgc | tgagacctgg | aagggcagcc | agcgtgccgg | 420 |
| ccagctgtgt | gcattgctgg | cctaatatgc | agggcttggg | gggctgtggc | cacatgcccg | 480 |
| gcaggaggtg | agtgaggagc | cctgtggcgt | gctggtgtgg | ggatcgtggg | catttcaaac | 540 |
| gggcttgtcg | taccctgaac | aatgtatcaa | tagagaaaaa | aaaaaaaaaa | aaaactoga  | 599 |

&lt;210&gt; 101

&lt;211&gt; 784

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 101

|             |             |            |            |             |             |     |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| gaattcggca  | cagaaaaaaa  | agagagactg | ggtcttactg | tgttgccag   | acttgtcttg  | 60  |
| aactcctgcc  | tcagcctctc  | aagtacttgg | gattataggc | caagaagcca  | ccatgcctag  | 120 |
| cttcttctctg | tcattgatcc  | agactaatac | tctggggtea | gcctcatTTc  | ttctctttct  | 180 |
| cactttgcac  | atccacttgt  | caccaaatk  | rgttcattct | gcacccaag   | taagtccttt  | 240 |
| gattcctcca  | gttggttcatt | agtaatgtct | caartgtaat | tttttctagt  | agttttcagc  | 300 |
| ctgtctttcc  | kgccttcagt  | cttaacttct | ccagtacata | kgccacattg  | ttgtcagcak  | 360 |
| gatcawattt  | tatttaaaaa  | tactttacaw | akgtttatkg | ccaaatatta  | graaatacag  | 420 |
| attcatggaa  | agaaaaaatca | ctgtcccaag | gaggtcactg | gcattggtgag | gttaaggggt  | 480 |
| gatttttaatt | tttaaaaatg  | tatatTTTTT | cctgtgtaga | gtagtaaac   | ccttgaaaaac | 540 |
| acawtccctt  | gtaaagtctc  | taattctgta | ctccgcctct | agstgrtctc  | ttctttctca  | 600 |
| gatattttac  | aatttcatTT  | atcaccacct | ttctctagcc | tttaccctgc  | tcttcaatat  | 660 |
| twacatatgc  | agaagtttct  | cctaacaaac | acctgcctct | gcctcagttc  | tgctaccacc  | 720 |
| ctgttgcttt  | ctttcccttc  | acaatcaaat | ctaagagtgt | caaaaaaaa   | aaaaaaaaac  | 780 |
| tcga        |             |            |            |             |             | 784 |

<210> 102  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<400> 102  
 ggcacgagtt ataaaaattga gactgatgaa acatcaatac tagagcccat gaggatgaaa 60  
 gaaattatca aatagtgtcg aacagaataa gatgttaacg ctgagttatt aggactggaa 120  
 ggctatgaaa agaacttgaa attgtcggaa tatgtgtctt cttcatgtca tattcaatag 180  
 aagtttctag tttaagattg attttgtgtt ttcttaggca tttcaagtga caagcaaatg 240  
 aaatgtatat attatgtgat aaatcatgtt ttcaagaacg tcaaatttct ggactttttt 300  
 ctttcaattt ttaattttta aagttttttt ggtattaaaa aatctattca caagccaaaa 360  
 aatatataaa atatacagcg aaaagccaaa aaaaaaaaaa aaaa 404

<210> 103  
 <211> 2218  
 <212> DNA  
 <213> Homo sapiens

<400> 103  
 aggtattagg ccccttttgtg ggagcccat gttttgtttt tctgagttgg tggggaggga 60  
 sggaggggga gggtgaatt gttttgcaga ggaagatggc atctgtgctt taaattttctc 120  
 attactgggt tagaaaacaa agagggaktg cctgcacat tttcttttgt gcttttaaat 180  
 gtttcttaag ttggaacagg tttctcggg cctgttttga ctgattgctg gagtgcattt 240  
 gatagttaaa aattactaat tgggttttatt tcccttcaca ctctgcctcc cactttctcc 300  
 ccccgttact gaaaaataac catttttagtg tcaggctaga aattgaattg ctgagttttg 360  
 tgtatccctt aaattaaaaa ccacaagtgt ttattgtagt ggtaaaactg tagcatctca 420  
 gcactcgggt ggaagctgcc tatatttctt ccagttttaa ctggggacca tctgtgaaat 480  
 taattttcca tccagacagc tgctgtgagc aaatgaacat aaatgctcgc tggaaattta 540  
 ctaaccagtt tttatattga cctgcagtgt aaaaagcaca ttaattata aacaatata 600  
 tcaaaatggg caaattttat tttcaaatgc agtgtagagc tagattaaaa gcaactcttt 660  
 gccacctact ctgccccttt ggcaaagtta ccttgaacaa agaactctta gggtttatta 720  
 agaactcttt atttttctca taccctgttc tctgcagtgc tttctaacag cttctgggtg 780  
 cagattttct toggcatcct tttgcactca gcttattaca ggtaggtagt gcttaagaaa 840  
 agtcatggag gactaaagcc taagtccttt tcacttttcc tccatctgaa ggtaggtgag 900  
 ttcactctct tcatagtaat gctgttttac caagacttta tagcagatgg accagaaaag 960  
 aattttctgc tattgtgttc actacaacag gatagggaca tcagacagcc ccagaaaacc 1020  
 cttccagatc tgatatggga ctattaattt ttatgctgtt aattggtatt cattcacaat 1080  
 gcagtngaag ggggaaggct ccactgcatt ctttggctaa ggccctgaatg cttgtctcctc 1140  
 tgtaagatct atactcgagg ttttgttttc cttttaaaaa tctttaggga gagagggatg 1200  
 gtttctgagg ggttctgaaa gtatgattca atgtgcaaca tacaggtagg tcttcagcat 1260  
 aagctgaaat atatgcatgt aaaaactttg acatcttttc ttttaatttt ccactttctt 1320  
 cttaacttta cttctctttt tgtccccccc ccatcttaca gaagttgagg ccaagggaga 1380  
 atggtaggca cagaagaaac atggcaaact gctctgtgct ttcaaaccac agtggtcccc 1440  
 ccaaccccaa atttgtctaa gcactggcca gtctgttgtg ggcattgttt tctacaacca 1500  
 aattctgggt ttttttcttc tttctttaa catagaggta ccaccacaag ggatgcccta 1560  
 ctctctcgca gctcttgaaa gcactctgtt gagggaaagg tctctgggca agcaagtggg 1620  
 tatttggaat gcttgcctcc ctttttccac ctgggacatt gyaatcataa aataacagta 1680  
 aattocaaac ctcaaaaact attatggcct gacacagct gaaatctagc agagtttaac 1740  
 tcttctgcct ccattgtctg cacttataat tcagggtctg ctggttggtt cagaacatga 1800  
 gcagaagaat cgttttatgc tagttattgc attcatggtt gaaactcaac ttagggaaaag 1860  
 ggttccaatg tattaagcaa tgggtgtctt ctccccaatc ctccctaaca attcgttgtg 1920  
 tggacttctc atctaaaagg ttagtggtt ttgcttgga tcagtgtctt ctattgatgt 1980  
 tcttgtcgtt ctccagacac attcctgttg cattaagact tgaaagactt gtagatgtgt 2040  
 gatgttcagg cacaggatgc tgaaagctat gttactattc ttagtttga aattgtcctt 2100

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ttgataccat catcttgttt tctttttgta ggtataaata aaaacactgt tgacaataaa 2160
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 2219

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<210> 104
<211> 1351
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (544)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (774)
<223> n equals a,t,g, or c

```

```

<400> 104
cttcacagac tgacagaatg gttttgtttt gttttgtttt gttttgtttt gtttttgaga 60
tggaactctag ctctgtcacc caggctggag tgcagtgggt cgatctcggc tcaactgcaag 120
ctccgcctcc ogggttctca ccattctcct gcctcagcct cccgagtagc tgggactaca 180
ggcgccacc accacgcccg gctaattttt tgtatttttt agtagagacg gggtttcacc 240
atgttagcca ggatgggtct gatctcctga cctcgtgac cgcccgcytc ggccctccaa 300
agtgtggga ttacaggcgt gagccaccgt gcctgcccc gaatgggttt taaagccaca 360
gttgagargc caccattgc cggcgccctg gacagtgat atcttgttca tcttgttcag 420
tcctttcttg tgtgattgga attattcacc cctttgaaa gatgagaagg ttgagatgca 480
aagagtctac ctttccaagt tctcactgct ggaaagarct agaagcacag ttcaaagttc 540
tggnttctgg actctgcagt ccaggtytcc cttytccacc ttgcctaccc tcaatgccac 600
actgtttttg aagtggccca taacttgaag graaagttaa aagacagttc aatttaatca 660
tcagratgca ttcttttttt ttccggarac ggaktttcac tcttgcctgc casgctggag 720
tgcaatggtg caatgatctc ggctcactgc aacctatgcc tcttgggttc aagngattat 780
ccagcctcag cctcccagat agctgggatt atgggcgccc accaccatgc ccagctaatt 840
tttgattttt tttttttagt agagatgggg tttcgccagg ttggccaggc tgktcttgtg 900
aaytcctggc ytcagggtgat ytgcccacyt catcytccaa aagtgcctggg attacaggca 960
tgagccactg cgcttggyt cagaatgcat tcttacacat ctatcctaga catttataag 1020
cactctaatt gataacaatc caagaataaa tgattgtaaa agatgatgcc gaagagttga 1080
tgtcaatctt tttttcctaa gaaaaaagt ccgcgagtat taaatattta gatcaatgtt 1140
tataaaatga ttactttgta tatctcatta ttctatttt ggaataaaaa ctgaccttct 1200
ttaatcatat acttgtcttt tgtaaatagc agcttttgtg tcatctctcc cactttatta 1260
gttaatttaa attggaaaaa accctcaaac taatattctt gtctgttoca gtcttataaa 1320
taaaacttat aatgcatgta aaaaaaaaaa a 1351

```

```

<210> 105
<211> 2066
<212> DNA
<213> Homo sapiens

```

```

<400> 105
ggcacgagggc ggcggagggc cacaatcaca gctccgggca ttgggggaac ccgagccggc 60
tgcgccggggg gaatccgtgc gggcgccctc cgccccgtc ccatcctcgc cgcgctccag 120
cacctctgaa gttttgcagc gcccgaaaag gaggcgagga aggagggagt gtgtgagagg 180
agggagcaaa aagctcacc taaaacattt atttcaagga gaaaagaaaa agggggggcg 240
caaaaatggc tggggcaatt atagaaaaca tgagcaccaa gaagctgtgc attgttgggtg 300
ggattctgct cgtgtcccaa atcatcgctt ttctggtggg aggtttgatt gctccagggc 360
ccacaacggc agtgcctac atgtcgggtga aatgtgtgga tgcccgtgaa aaccatcaca 420

```

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| agacaaaatg | gttcgtgcct | tggggaccca | atcattgtga  | caagatccga | gacattgaag  | 480  |
| aggcaattcc | aagggaaatt | gaagccaatg | acatcgtgtt  | ttctgttcac | attccccctc  | 540  |
| cccacatgga | gatgagtcct | tggttccaat | tcattgctgtt | tatcctgcag | ctggacattg  | 600  |
| ccttcaagct | aaacaacca  | atcagagaaa | atgcagaagt  | ctccatggac | gtttccctgg  | 660  |
| cttaccgtga | tgacgcattt | gctgagtggg | ctgaaatggc  | ccatgaaaga | gtaccaacgga | 720  |
| aactcaaatt | caccttcaca | tctcccaaga | ctccagagca  | tgagggccgt | tactatgaat  | 780  |
| gtgatgtcct | tcctttcatg | gaaattgggt | ctgtggccca  | taagttttac | cttttaaaca  | 840  |
| tcgggctgcc | tgtgaatgag | aagaagaaaa | tcaatgtggg  | aattggggag | ataaaggata  | 900  |
| tcgggttggg | ggggatccac | caaaatggag | gcttcaccaa  | ggtgtgtgtt | gccatgaaga  | 960  |
| ccttccttac | gcccagcatc | tccatcatta | tgggtgtgga  | ttggaggagg | atcaccatga  | 1020 |
| tgtcccgacc | cccagtgcct | ctggaaaaag | tcattctttg  | ccttgggatt | tccatgacct  | 1080 |
| ttatcaatat | cccagtggaa | tgggttttca | tcgggtttga  | ctggacctgg | atgctgtgtg  | 1140 |
| ttggtgacat | cgcacagggc | atcttctatg | cgatgcttct  | gtccttctgg | atcatcttct  | 1200 |
| gtggcgagca | catgatggat | cagcacgagc | ggaaccacat  | tgacgggtat | tggaagcaag  | 1260 |
| tcggacccat | tgccgttggc | tccttctgcc | tcttcataat  | tgacatgtgt | gagagagggg  | 1320 |
| tacaactcac | gaatcccttc | tacagtatct | ggactacaga  | cattggaaca | gagctggcca  | 1380 |
| tggccttcat | catcgtggct | ggaatctgcc | tctgcctcta  | cttctctgtt | ctatgcttca  | 1440 |
| tggtattttc | ggtgtttcgg | aacatcagtg | ggaagcagtc  | cagcctgcca | gctatgagca  | 1500 |
| aagtccggcg | gctacactat | gaggggctaa | tttttaggtt  | caagttcctc | atgcttatca  | 1560 |
| ccttggcctg | cgctgccatg | actgtcatct | tcttcacgtt  | tagtcaggta | acggaaggcc  | 1620 |
| attggaaatg | gggcgccgtc | acagttcaag | tgaacagtcg  | ctttttcaca | ggcatctatg  | 1680 |
| ggatgtggaa | tctgtatgtc | tttgcctctg | tggttcttga  | tgacccatcc | cataaaaact  | 1740 |
| atggagaaga | ccagtccaat | ggaatgcaac | tcccatgtaa  | atcgagggaa | gattgtgctt  | 1800 |
| tgtttgtttc | ggaactttat | caagaattgt | tcagcgcttc  | gaaatattcc | ttcatcaatg  | 1860 |
| acaacgcagc | ttctgggtat | tgagtcaaca | aggcaacaca  | tgtttatcag | ctttgcattt  | 1920 |
| gcagttgtca | cagtcacatt | gattgtactt | gtatacgcac  | acaaatacac | tcatttagcc  | 1980 |
| tttatctcaa | aatgttaaat | ataaggaaaa | aagcgtcaac  | aataaatatt | cttgagtata  | 2040 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaa    |             |            |             | 2066 |

&lt;210&gt; 106

&lt;211&gt; 1705

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (724)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 106

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| aattcggcck | agggcagctg  | tcggctggaa  | ggaactggtc  | tgctcacact  | tgctggcttg | 60   |
| cgcacagga  | ctggctttat  | ctctgactc   | acggtgcaaa  | ggtgcactct  | gogaacgtta | 120  |
| agtcgcgtcc | cagcgcttgg  | aatcctacgg  | ccccacagc   | cggatccccct | cagccttcca | 180  |
| ggtcctcaac | tcccgyggac  | gctgaacaat  | ggcctccatg  | gggctacagg  | taatgggcat | 240  |
| cgcgctggcc | gtcctgggct  | ggctggcctg  | catgctgtgc  | tgccgcgtgc  | ccatgtggcg | 300  |
| cgtgacggcc | ttcatcggca  | gcaacattgt  | cacctgcag   | accatctggg  | agggcctatg | 360  |
| gatgaactgc | gtgggtgcaga | gcaccggcca  | gatgcagtcg  | aagggtgtag  | actcgtgtgt | 420  |
| ggcactgccg | caggacctgc  | aggcgggccc  | cgccctcgtc  | atcatcagca  | tcacgtgggc | 480  |
| tgccttgggc | gtgctgctgt  | cogtgggtggg | gggcaagtgt  | accaactgcc  | tggaggatga | 540  |
| aagcgccaag | gccaaagacca | tgatcgtggc  | gggctgtgtg  | ttcctgttgg  | coggccttat | 600  |
| ggtgatagtg | cgggtgtcct  | ggacggccca  | caacatcatc  | caagacttct  | acaatccgct | 660  |
| ggtggcctcc | gggcagaagc  | gggagatggg  | tgccctcgctc | tacgtcggct  | gggcgccttc | 720  |
| cggntcgtct | ctccttggcg  | gggggctgct  | ttgctgcaac  | tgccacccc   | gcacagacaa | 780  |
| gccttactcc | gccaaagtatt | ctgctgccc   | ctctgctgct  | gccagcaact  | acgtgtaagg | 840  |
| tgccacggct | ccactctgtt  | cctctctgct  | ttgttcttcc  | ctggactgag  | ctcagcgcag | 900  |
| gctgtgacct | caggagggcc  | ctgccacggg  | ccactggctg  | ctggggactg  | gggactgggc | 960  |
| agagactgag | ccaggcagga  | aggcagcagc  | cttcagcctc  | tctggccccc  | toggacaact | 1020 |

|            |             |             |            |             |            |      |
|------------|-------------|-------------|------------|-------------|------------|------|
| tcccaaggcc | gcctcctgct  | agcaagaaca  | gagteccccc | tcctctggat  | attggggagg | 1080 |
| gacggaagt  | acaggggtgtg | gtgggtggagt | ggggagctgg | cttctgctgg  | ccaggatggc | 1140 |
| ttaacctga  | ctttgggata  | tgctgcata   | ggtgttgcc  | actgtcccca  | tttacatatt | 1200 |
| ccccactctg | tctgcctgca  | tctcctctgt  | tgccggtagg | ccttgatata  | acctctggga | 1260 |
| ctgtgccttg | ctcaccgaaa  | cccgcgccca  | ggagtatggc | tgaggccttg  | cccaccacc  | 1320 |
| tgccctggga | gtgcagagt   | gatggacggg  | tttagagggg | aggggcgaag  | gtgctgtaaa | 1380 |
| caggtttgga | cagtggtggg  | ggagggggcc  | agagaggcgg | ctcaggttgc  | ccagctctgt | 1440 |
| ggcctcagga | ctctctgcct  | caccogcttc  | agcccagggc | ccctggagac  | tgatcccttc | 1500 |
| tgagtccctc | gccccctcca  | aggacactaa  | tgagcctggg | aggggtggcag | ggaggagggg | 1560 |
| acagcttcac | ccttggaagt  | cctgggggtt  | ttctctcttc | ttctttgtgg  | tttctgtttt | 1620 |
| gtaatttaag | aagagctatt  | catcactgta  | attattatta | ttttctacaa  | ttaatgggac | 1680 |
| ctgtgcacag | graaaaaaaa  | aaaag       |            |             |            | 1705 |

&lt;210&gt; 107

&lt;211&gt; 1167

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 107

|            |             |            |            |             |            |      |
|------------|-------------|------------|------------|-------------|------------|------|
| nggagntcca | ccgcgggtggc | ggccgctcta | gaactagtgg | atcccccggg  | ctgcaggaat | 60   |
| tcggcacgag | gccaccaacc  | gtggcatcac | gcgaatccgg | ggcaccagct  | accagagccc | 120  |
| tcacggcatc | cccatagacc  | tgctggacag | gcgccatgtc | actctccagg  | gcccgggtga | 180  |
| ggaaggagaa | gctctcgatg  | tccagcatgt | ggacctcgtc | gatgaacagc  | actccaggga | 240  |
| tgatctccgc | cttgccctcc  | tcgcgccact | cagccacctt | ggcattgatc  | tgctcacgga | 300  |
| cttctgactt | gatctccctt  | gtgtcacctg | agaagagcgc | caggaagccc  | tgggtgcgag | 360  |
| agttgatgac | gtcgatctcg  | tcgagggaca | cgggtgtcac | cacctccttg  | cgtttctgga | 420  |
| gtcccccatc | tgggcactgc  | acgaacttgg | tctgggagcc | catagcgctg  | tagttcgcgg | 480  |
| gcgcgtgtga | aggagcggcc  | cagcttggag | atcttgcccc | tcgccttgtc  | gatggtgatc | 540  |
| acgtccccgg | cctggacctt  | gtccttggtc | agggamtcaa | tcatcttggg  | gcccaggctc | 600  |
| tagatggtct | ccatctctgt  | ggtcttgagg | gtcagtttgc | ccaccttgga  | gcccgtccct | 660  |
| gttgctggtc | gatcaatctg  | gatctccacc | acctccccct | cgatgatctc  | cgtctcctcc | 720  |
| ttgatgcgaa | cgccgatgga  | ccgcgggaag | gcctgcgtca | gcgcctoggt  | cttgctcatc | 780  |
| tccagggaga | agatttccat  | gccggcgatg | gctgtgaatg | gcgtgtcagg  | gcccagggcc | 840  |
| tgcgccatgc | ccatggcgat  | ggcgtcttcc | cccgtgcccg | gctggccagc  | aataaggact | 900  |
| gcccagaccg | caatcttccc  | ttcccggatc | atctccagca | ccacgccagc  | cgcccgcctg | 960  |
| gcgcgcagct | gaccaccat   | gccttgcgaa | gcctgcccag | gtcccaaggc  | atcgtccagc | 1020 |
| cccagtcctc | ggatgtggga  | gtgggcaccg | attcgctcaa | tccttggttac | atcacggatc | 1080 |
| tccgggactt | tggttgtggc  | tgtaacgggt | gccatgatgc | tcaccaactg  | ccagagtcta | 1140 |
| gcggaaaacc | tctgcogaat  | tctgca     |            |             |            | 1167 |

&lt;210&gt; 108

&lt;211&gt; 1907

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 108

|             |             |             |            |            |            |      |
|-------------|-------------|-------------|------------|------------|------------|------|
| ggcacagggg  | aatcatcggtg | tgatgtgtgt  | gctgcctttg | tgagtgtgtg | gagtcctgct | 60   |
| caggtgttag  | gtacagtgtg  | tttgatcggtg | gtggcttgag | gggaaccctt | gttcagagct | 120  |
| gtgactgagg  | ctgcactcag  | agaagctgcc  | cttggctgct | cgtagcgccg | ggccttctct | 180  |
| cctcgtcatc  | atccagagca  | gccagtgtcc  | gggaggcaga | aggtaccggg | gcagctactg | 240  |
| gaggactgtg  | cgggcctgcc  | tgggctgccc  | cctccgcctg | ggggccctgt | tgctgctgtc | 300  |
| catctatttc  | tactactccc  | tcccaaattgc | ggtcggcccc | cccttcactt | ggatgcttgc | 360  |
| cctcctgggc  | ctctcgcagg  | cactgaacat  | cctcctgggc | ctcaagggcc | tggccccagc | 420  |
| tgagatctct  | gcagtgtgtg  | aaaaaggga   | tttcaacgtg | gcccattggg | tggcatggtc | 480  |
| atattacatc  | ggataatctg  | ggctgaccc   | gccagagctc | caggccccga | ttcgaactta | 540  |
| caatcagcat  | tacaacaacc  | tgctacgggg  | tgcaagtgcg | cagcggtgtg | atattctcct | 600  |
| cccatgggac  | tgtgggggtg  | ctgataacct  | gagtattggc | gaccccaaca | ttcgcttctc | 660  |
| ggataaaactg | ccccagcaga  | cgggtgaccg  | tgctggcatc | aaggatcggg | tttacagcaa | 720  |
| cagcatctat  | gagcttcttg  | agaacgggca  | gcgggcgggc | acctgtgtcc | tggagtacgc | 780  |
| cacccccctt  | cagactttgt  | ttgccatgtc  | acaatacagt | caagctggct | ttagcgggga | 840  |
| ggataggctt  | gagcaggcca  | aactcttctg  | cgggacactt | gaggacatcc | tggcagatgc | 900  |
| ccctgagctc  | cagaacaact  | gccgcctcat  | tgctaccag  | gaacctgcag | atgacagcag | 960  |
| cttctcgtg   | tcccaggagg  | ttctccggca  | cctgcggcag | gaggaaaagg | aagaggttac | 1020 |
| tgtgggcagc  | ttgaagacct  | cagcgggtgc  | cagtacctcc | acgatgtccc | aagagcctga | 1080 |
| gctcctcatc  | agtgggaatg  | aaaagccctt  | ccctctccgc | acggatttct | cttgagaccc | 1140 |
| agggtcacca  | ggccagagcc  | tccagtggtc  | tccaagcctc | tggactgggg | gctctcttca | 1200 |
| gtggctgaat  | gtccagcaga  | gctatttctt  | tccacagggg | gccttgccag | gaagggtcca | 1260 |
| ggacttgaca  | tcttaagatg  | cgtcttgtcc  | ccttgggcca | gtcatttccc | ctctctgagc | 1320 |
| ctcgggtgtc  | tcaacctgtg  | aaatggggtc  | ataatcactg | ccttacctcc | ctcacgggtg | 1380 |
| ttgtgaggac  | tgagtgtgtg  | gaagtttttc  | ataaactttg | gatgctagtg | tacttagggg | 1440 |
| gtgtgccagg  | tgtctttcat  | ggggccttcc  | agaccactc  | cccacccttc | tccccttctc | 1500 |
| ttgcccgggg  | acgccgaact  | ctctcaatgg  | tatcaacagg | ctccttcgcc | ctctggctcc | 1560 |
| tggcatgtt   | ccattatttg  | ggagccccag  | cagaagaatg | gagaggagga | ggaggctgag | 1620 |
| tttggggtat  | tgaatcccc   | ggctcccacc  | ctgcagcatc | aaggttgcta | tggactctcc | 1680 |
| tgccgggcaa  | ctcttgctga  | atcatgacta  | tctctaggat | tctggcacca | cttccctccc | 1740 |
| tggccctta   | agcctagctg  | tgtatcgcca  | ccccacccc  | actagagtac | tccctctcac | 1800 |
| ttgcgggttt  | cttatactcc  | acccctttct  | caacggctct | tttttaaagc | acatctcaga | 1860 |
| ttaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaggg | cggccgc    |            | 1907 |

<210> 109  
 <211> 611  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (21)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (47)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (607)  
 <223> n equals a,t,g, or c



<220>  
 <221> SITE  
 <222> (610)  
 <223> n equals a,t,g, or c

<400> 109  
 atgaattaac gccaaagctnt naatagggac tcactatggg ggaaagntgg gtaacgcctg 60  
 caggtaccgt tccggaattc cccgggtcgac ccacgcgtcc gatggggcctt tagtaaatca 120  
 ggcttgcagg ctcaaagctg caatctgccc actctcaggt actgagactt tgtgggcctc 180  
 agacaccagg aagaaagtgt ggatacagtc atttgagtta aaaaggggaat gacccctcag 240  
 aaacccgcct tagcagtggt actcttggaa gtgcctttac ttttaacgct ctctgttctg 300  
 aaaaagaggt gtttgggttac gtgtgagcca acatcacggt ttgttagctg tgatttacct 360  
 ttgtccgttt aaaagacttc acggagccat tctgtataca aggtgtgctc tttccaatgt 420  
 agaaggggtt atggaaaagg gtgcgatcct ttgctgtaaa ctggagagac cagtcccaaa 480  
 cagaggggaa ttttaagccc ttctcatcac ccaattggat gtttttgctt atagcaaatt 540  
 cctgcaaaat aaataaataa atatttgcaa aactaaaaaa aaaaaaaaaa aaaaaaaaaa 600  
 ggggggncn c 611

<210> 110  
 <211> 2632  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2620)  
 <223> n equals a,t,g, or c

<400> 110  
 tcccagctct caggacaagg gccctgggag atctttttaa aaagccgatt ggggtgtcttt 60  
 ctaaaantac aaccagtact tcactgtcaa gtttctggga agggagtcctc ctccagattc 120  
 tcatggagtg acaaatcttg actcttgctc ctggaatttt tcaggcccaa actagcgttt 180  
 ctacaatgat ttatttggca aatttgcctt gattatgggt ggctgatgag gaacgtgctt 240  
 ttgttaggaa ccgaaactgg gggcggtga gggcgtgtac gcaatgagtc cggagagagg 300  
 tgaaatgctt tcggtaggca ctccacggct gtgaagatgg cggcggtgc gtggcttcag 360  
 gtgttgctg tcattcttct gcttctggga gctcaccgt caccactgtc gtttttcagt 420  
 gcgggaccgg caaccgtagc tgctgccgac cgttccaaat ggcacattcc gataccgtcg 480  
 gggaaaaaatt atttttagtt tggaaaagatc ctcttcagaa ataccactat cttcctgaag 540  
 tttgatggag aacctgtga cctgtctttg aatataacct ggtatctgaa aagcgtgat 600  
 tgttacaatg aaatctataa cttcaaggca gaagaagtag agttgtattt ggaaaaactt 660  
 aaggaaaaaa gaggttgtc tgggaaatat caaacatcat caaaattgtt ccagaactgc 720  
 agtgaactct ttaaaacaca gaccttttct ggagatttta tgcacgact gcctctttta 780  
 ggagaaaaac aggaggctaa ggagaatgga acaaacctta cttttattgg agacaaaacc 840  
 gcaatgcatg aaccattgca aacttggcaa gatgcaccat acatttttat tgtacatatt 900  
 ggcatttcat cctcaaagga atcatcaaaa gaaaattcac tgagtaatct ttttaccatg 960  
 actgttgaag tgaagggtcc ctatgaatac ctcacacttg aagactatcc cttgatgatt 1020  
 tttttcatgg tgatgtgtat tgtatatgtc ctgrrtggtg ttctgtggct ggcattggtc 1080  
 gctgtctact ggagagatct cctgagaatt cagttttgga ttggtgctgt catcttctg 1140  
 ggaatgcttg agaaagctgt cttctatgag gaatttcaga atatccgata caaaggaraa 1200  
 tctgtccagg gtgctttgat ccttgcagar ctgctttcag cagtgaacgc ctactggct 1260  
 cgaaccctgg tcatcatagt cagttctggga tatggcatcg tcaagccacg cctggagtc 1320

|            |            |             |             |             |            |      |
|------------|------------|-------------|-------------|-------------|------------|------|
| ctcttcataa | ggttgtagta | gcagragccc  | tctatctttt  | gttctctggc  | atggaagggg | 1380 |
| tcctcagagt | tactggggcc | cagaactgatc | ttgcttccct  | ggcctttatc  | cccttggtct | 1440 |
| tcctagacac | tgcttgtg   | tggtggatat  | ttattagcct  | gactcaaaca  | atgaagctat | 1500 |
| taaaacttcg | gaggaacatt | gtaaaactct  | ctttgtagcg  | gcatttcacc  | aacacgctta | 1560 |
| ttttggcagt | ggcagcatcc | attgtgttta  | tcactctggac | aaccaatgaag | ttcagaatag | 1620 |
| tgacatgtca | gtcggactgg | cgggagctgt  | gggtagacga  | tgccatctgg  | cgcttgctgt | 1680 |
| tctccatgat | cctctttgtc | atcatggttc  | tctggcgacc  | atctgcaaac  | aaccagaggt | 1740 |
| ttgccttttc | accattgtct | gaggaagagg  | aggaggatga  | acaaaaggag  | cctatgctga | 1800 |
| aagaaagctt | tgaaggaatg | aaaatgagaa  | gtaccaaaca  | agaacccaat  | ggaaatagta | 1860 |
| aagttaacaa | agcacaggaa | gatgatttga  | agtgggtaga  | agagaatgtt  | ccttcttctg | 1920 |
| tgacagatgt | agcacttcca | gcccttctgg  | attcagatga  | ggaacgaatg  | atcacacact | 1980 |
| ttgaaaggtc | caaaatggag | taaggaatgg  | gaagatttgc  | agttaaagat  | ggctaccatc | 2040 |
| agggaagaga | tcagcatctg | tgtcagtcct  | ctgtacggct  | ccatgggatt  | aaaggaagca | 2100 |
| atgacatcct | gatctgttcc | ttgatctttg  | ggcattggag  | ttggcgagag  | gtgtcagaac | 2160 |
| aaagagaaca | tcttactgaa | aacaagttca  | taagatgaga  | aaaatctacg  | agcttcttat | 2220 |
| ttacaacact | gctgccccct | ttcctcccag  | actctgacat  | ggatgttcac  | gcaacttaag | 2280 |
| tgtgttgttc | ctgaactttc | tgtaatgttt  | cattttttta  | atctgacaaa  | ctaaaaagtt | 2340 |
| taacgtcttc | taaaagattg | tcacaaacac  | cataatatgt  | aatctccagg  | agcaactgcc | 2400 |
| tgtaattttc | atttatttag | ggagttacat  | aggtgatggg  | ggaaattgtt  | aactaccttt | 2460 |
| cattttcctg | ggaagtcaag | gttacatctt  | gcagaggttg  | ttttgagaaa  | aaagggccct | 2520 |
| tctgagttaa | ggagccatag | ttctatcaat  | gatcaaaaaga | aaaaaaaaaa  | aactcgatcg | 2580 |
| gcacgagggg | gggcccggta | cccaattcgc  | cctatgggan  | tcgaaatgaga | cc         | 2632 |

&lt;210&gt; 111

&lt;211&gt; 2249

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1579)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2226)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 111

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| gaattcggca  | cgagctcacc  | gtgctgctg  | acacaaggcc | agcctgcgcc  | tacgagccca  | 60   |
| tggactttkt  | ratggccctc  | atctacgaca | tggtactgsw | tgtggtcacc  | ctggggctgg  | 120  |
| ccctcttcac  | tctgtgcggc  | aagttcaaga | ggtggaagct | gaacggggcc  | ttcctcctca  | 180  |
| tcacagccct  | cctctctgtg  | ctcatctggg | tggcctggat | gaccatgtac  | ctcttcggca  | 240  |
| atgtcaagct  | gcagcagggg  | gatgcctgga | acgacccccc | cttggccatc  | acgttgccgg  | 300  |
| ccagcgctgg  | gtcttctgtc  | tcttccacgc | catccctgag | atccactgca  | cccttctgcc  | 360  |
| agccctgcag  | gagaacacgc  | ccaactactt | cgacacgtcg | cagcccagga  | tgccgggagac | 420  |
| ggccttcgag  | gaggacgtgc  | agctgcgcgc | ggcctatatg | gagaaacaagg | ccttctccat  | 480  |
| ggatgaacac  | aatgcagctc  | tccgaacagc | aggatttccc | aacggcagct  | tgggaaaaaag | 540  |
| acccagtggc  | agcttgggga  | aaagacccag | cgctccgttt | agaagcaacg  | tgtatcagcc  | 600  |
| aactgagatg  | gccgtcgtgc  | tcaacgggtg | gaccatcccc | actgctccgc  | caagtcacac  | 660  |
| aggaagamac  | ctttgggtgaa | agactttaag | ttccagagaa | tcagaatttc  | tcttaccgat  | 720  |
| ttgcctccct  | ggctgtgtct  | ttcttgaggg | agaaatcggt | aacagtggcc  | gaaccaggcc  | 780  |
| gcttcacagc  | caggaaattt  | ggaaatccta | gccaaaggga | tttcgtgtaa  | atgtgaacac  | 840  |
| tgacgaactg  | aaaagctaac  | accgactgcc | cgcctctccc | ctgcccacaca | cacagacacg  | 900  |
| taataaccaga | ccaacctcaa  | tccccgcaaa | ctaaagcaaa | gctaattgca  | aatagtatta  | 960  |
| ggctcactgg  | aaaatgtggc  | tgggaagact | gtttcatcct | ctgggggtag  | aacagaacca  | 1020 |
| aattcacagc  | tgggtgggcca | gactgggtgt | gggtggaggt | ggggggctcc  | cactcttctc  | 1080 |

|            |             |            |            |            |             |      |
|------------|-------------|------------|------------|------------|-------------|------|
| acctctcccc | agcaagtgtt  | ggaccccagg | tagcctcttg | gagatgaccg | ttgcgttgag  | 1140 |
| gacaaatggg | gactttgcca  | ccggctttgc | ctgggtggtt | gcacatttca | gggggggtcag | 1200 |
| gagagttaag | gaggttggtg  | gtgggattcc | aaggtgaggg | ccaactgaat | cgtgggggtga | 1260 |
| gctttatagc | cagtagaggt  | ggagggaccc | tggcatgtgc | caaagaagag | gccctctggg  | 1320 |
| tgatgaagtg | accatcacat  | ttggaaagtg | atcaaccact | gttccttcta | tggggctctt  | 1380 |
| gctctagtgt | ctatggtgag  | aacacaggcc | ccgccccttc | ccttgtagag | ccatagaaat  | 1440 |
| attctggctt | ggggcagcag  | tcccttcttc | ccttgatcat | ctcgccctgt | tcctacactt  | 1500 |
| acgggtgtat | ctocaaatcc  | tctcccaatt | ttattccctt | attcatttca | agagctccaa  | 1560 |
| tggggtctcc | agctgaaans  | ccctccggga | ggcagggttg | aaggcaggga | ccacggcagg  | 1620 |
| ttttccgcga | tgatgtcacc  | tagcagggct | tcaggggttc | ccactaggat | gcagagatga  | 1680 |
| cctctcgctg | cctcacaagc  | agtacacct  | cgggtccttt | ccgttgctat | ggtgaaaatt  | 1740 |
| cctggatgga | atggatcaca  | tgagggtttc | ttgttgcttt | tggagggtgt | gggggatatt  | 1800 |
| ttgttttggg | ttttctgcag  | gttccatgaa | aacagccctt | ttccaagccc | attgtttctg  | 1860 |
| tcattggttc | catctgtcct  | gagcaagtca | ttcctttggt | atttagcatt | tcgaacatct  | 1920 |
| cggccattca | aagcccccat  | gttctctgca | ctgtttggcc | agcataacct | ctagcatcga  | 1980 |
| ttcaaagcag | agttttaacc  | tgacggcatg | gaatgtataa | atgagggtgg | gtcctttctg  | 2040 |
| agatactcta | atcactacat  | tgctttttct | ataaaactac | ccataagcct | ttaaccttta  | 2100 |
| aagaaaaatg | aaaaagggtta | gtgtttgggg | gccgggggag | gactgaccgc | ttcataagcc  | 2160 |
| agtacgtctg | agctgagtat  | gtttcaataa | accttttgat | atttctcaaa | aaaaaaaaaa  | 2220 |
| aaaaancccg | ggggggggcc  | cggacctgg  |            |            |             | 2249 |

<210> 112  
 <211> 2198  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (123)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (621)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (640)  
 <223> n equals a,t,g, or c

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 112   |             |            |             |            |             |     |
| gatactataa  | ggcaagtgtg  | tcacgggtgc | gccgttagac  | tagtggatcc | cgggtgcagg  | 60  |
| aattoggcag  | agcgccgcgc  | gagccgaagt | gctggcgccc  | ccgcgccgcg | tgcctccgcg  | 120 |
| gancccaaaa  | tcattgaaagt | caccgtgaag | accccggaaga | aaaggaggaa | ttcgccgtgc  | 180 |
| ccgagaatag  | ctccgtccag  | cagtttaagg | aagaaatctc  | taaacgtttt | aaatcacata  | 240 |
| ctgaccaact  | tgtgttgata  | tttgctggaa | aaattttgaa  | agatcaagat | accttgagtc  | 300 |
| agcatggaat  | tcattgatga  | cttactgttc | accttgatcat | taaaacacaa | aacaggccctc | 360 |
| aggatcattc  | agctcagcaa  | acaaatacag | ctggaagcaa  | tgttactaca | tcataaactc  | 420 |
| ctaattagtaa | ctctacatct  | ggttctgcta | ctagcaaccc  | ttttggttta | ggtggccttg  | 480 |
| ggggacttgc  | aggtctgagt  | agcttgggtt | tgaatactac  | caacttctct | gaactacaga  | 540 |
| gtcagatgca  | gcgacaactt  | ttgtctaac  | ctgaaatgat  | ggtccagatc | atggaaaawc  | 600 |
| ccyttgttca  | gagcatgtc   | ntcaaatcct | gacctgatgn  | agacagttaa | ttatggccaa  | 660 |
| tcacaaaatg  | cagcagttga  | tacagagaaa | tcccagaaat  | tagtcatatg | ttgaataatc  | 720 |
| cagatataat  | gagacaaacg  | ttggaacttg | cccaggaatc  | cagcaatgat | gcaggagatg  | 780 |
| atgaggaacc  | aggaccgagc  | tttgagcaac | ctagaaagca  | tcccaggggg | atataatgct  | 840 |
| ttaaggcgca  | tgtacacaga  | tattcaggaa | ccaatgctga  | gtgctgcaca | agagcagttt  | 900 |

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| ggtggttaatc | catttgcttc | cttgggtgagc | aatacatcct  | ctgggtgaagg | tagtcaacct  | 960  |
| tcccgtacag  | aaaatagaga | tccactaccc  | aatccatggg  | ctccacagac  | ttcccagagt  | 1020 |
| tcatcagctt  | ccagcggcac | tgccagcact  | gtgggtggca  | ctactggtag  | tactgccagt  | 1080 |
| ggcacttctg  | ggcagagtac | tactgcgcca  | aatttgggtgc | ctggagtagg  | agctagtagt  | 1140 |
| ttcaacacac  | caggaatgca | gagcttgttg  | caacaaataa  | ctgaaaacc   | acaacttatg  | 1200 |
| caaaacatgt  | tgtctgcccc | ctacatgaga  | agcatgatgc  | agtcactaag  | ccagaatcct  | 1260 |
| gaccttgctg  | cacagatgat | gctgaataat  | cccctatttg  | ctggaaatcc  | tcagcttcaa  | 1320 |
| gaacaaatga  | gacaacagct | cccaactttc  | ctccaacaaa  | tgagaaatcc  | tgatacacta  | 1380 |
| tcagcaatgt  | caaaccctag | agcaatgcag  | gccttgttac  | agattcagca  | gggtttacag  | 1440 |
| acattagcaa  | cggaagcccc | gggcctcctc  | ccagggttta  | ctcctggctt  | gggggcatta  | 1500 |
| ggaagcactg  | gaggctcttc | gggaactaat  | ggatctaacg  | ccacacctag  | tgaaaacaca  | 1560 |
| agtcccacag  | caggaaccac | tgaacctgga  | catcagcagt  | ttattcagca  | gatgctgcag  | 1620 |
| gctcttgctg  | gagtaaatcc | tcagctacag  | aatccagaag  | tcagatttca  | gcaacaactg  | 1680 |
| gaacaactca  | gtgcaatggg | atTTTTgaac  | cgtgaagcaa  | acttgcaagc  | tctaatagca  | 1740 |
| acaggagggtg | atatcaatgc | agctattgaa  | aggttactgg  | gctcccagcc  | atcatagcag  | 1800 |
| catttctgtta | tctkgaaaaa | atgtaattta  | tttttgataa  | cggctcttaa  | actttaaaat  | 1860 |
| acctgcttta  | tttcatTTTT | actcctggaa  | ttctgtgctg  | ttataaacia  | acccaatatg  | 1920 |
| atgcatttta  | aggtggagta | cagtaagatg  | tgtgggtttt  | tctgtatttt  | tcttttctgg  | 1980 |
| aacagtggga  | attaaggcta | ctgcatgcat  | cactttctga  | tttattgtaa  | ttttttaaaa  | 2040 |
| acatcacctt  | ttatagttgg | gtgaccagat  | ttgtctctgc  | atctgtccag  | tttatttgcct | 2100 |
| ttttaaacat  | tagcctatgg | tagtaattta  | tgtagaataa  | aagcattaaa  | aagaagcaaa  | 2160 |
| aaaaaaaaaa  | aaaaattcct | gcgcccgcga  | attcttct    |             |             | 2198 |

&lt;210&gt; 113

&lt;211&gt; 1043

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

|             |             |             |            |            |            |      |
|-------------|-------------|-------------|------------|------------|------------|------|
| ctgaagtgtta | tgtgggtgagg | aagaagaggc  | tctactgtta | gacagccttg | ttctacagat | 60   |
| cctcccagaa  | atctctgggg  | cagggtggaac | ccagggtcag | agagggatgg | gagagagggt | 120  |
| taattttcca  | tgataaataa  | aaatctataa  | aataataaac | aagagaaaag | agattggaaa | 180  |
| cagccagggtt | ggagcagtg   | gtgagtaagg  | aaacctggct | gacctctcca | gattccccag | 240  |
| gctctcagag  | aagatcagca  | gaaagtctgc  | aagaccttaa | gaaccatcag | ccctcagctg | 300  |
| cacctcctcc  | cctccaagga  | tgacaaaggc  | gctactcctc | tatttggtca | gcagctttct | 360  |
| tgccctaaat  | caggccagcc  | tcacagtcg   | ctgtgacttg | gcccagggtg | tgagctgga  | 420  |
| rgacttggat  | gggttttgagg | gttactccct  | gagtgcactg | ctgtgcctgg | cttttgtgga | 480  |
| aagcaagtct  | aacatatcaa  | agatwaatga  | aaatgcagat | ggaagctctg | actatggsct | 540  |
| cttccagatc  | aacagccact  | actgggtgcaa | crattataag | agttactcgg | aaaacctttg | 600  |
| ccacgtagac  | tgtcaagatc  | tgctgaatcc  | caaccttctt | gcaggcatcc | actgcgcaaa | 660  |
| aaggattgtg  | tccggagcac  | gggggatgaa  | caactgggtt | agaatggaag | ktgcaactgt | 720  |
| tcaggccggc  | cactcttcta  | ctggctgaca  | ggatgcccgc | tgagatkaaa | carggtgcgg | 780  |
| gtgcaccgtg  | gartcaattcc | aagactcctg  | tctcactcca | rggattcttc | atttcttctt | 840  |
| cctactgcct  | ccacttcatg  | ttattttctt  | cccttcccat | ttacaactaa | aactgaccag | 900  |
| agccccagga  | ataaatgggt  | ttcttggctt  | cctccttact | cccactctga | cccagctccc | 960  |
| tggttctctg  | ctgttatttg  | taaactgagg  | accacaataa | agaaatcttt | atatttatcg | 1020 |
| aaaaaaaaaa  | aaaaaaaaact | cga         |            |            |            | 1043 |

&lt;210&gt; 114

&lt;211&gt; 703

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgagtgcgag | ggcaccacgg | cggtttttcg | acgctggcgg | tggaacgcagg | 60  |
| cagcatggac | cacgggttgc | gggcggatgg | ggagcgtcta | tggtcagttg | ccttagaagt  | 120 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggtgagatgg | gaagctgcag | ttggaagacc | ctggaggatg | cctgacaagg | ggatgtctga | 180 |
| cacatgattg | gagctctttt | tgaatgttt  | cttgcccttc | ctggagcaga | ggagccatta | 240 |
| tttatgcagg | tacatcgaag | tcttttgacc | tccatcacgt | gattatgctt | gtcatcgctg | 300 |
| gtggtatcct | ggcggccctg | ctcctgctga | tagttgtcgt | gctctgtctt | tacttcaaaa | 360 |
| tacacaacgc | gctaaaagct | gcaaaggaac | ctgaagctgt | ggctgtaaaa | aatcacaacc | 420 |
| cagacaagg  | gtggtggg   | aagaacagcc | aggccaaaac | cattgccacg | gagtcttgtc | 480 |
| ctgccctgca | gtgctgtgaa | ggatatagaa | tgtgtgccag | ttttgattcc | ctgccacctt | 540 |
| gctgttgcca | cataaatgag | ggcctctgag | ttaggaaagg | tgggcacaaa | aatcttcatg | 600 |
| agcaatactt | cttagtagat | tgctttgtta | ttcaaataca | gttctagtgt | ttttatgtga | 660 |
| gattatataa | tttacagtgt | tgctttatat | acttttgaat | aaa        |            | 703 |

&lt;210&gt; 115

&lt;211&gt; 3684

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2297)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3679)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 115

|             |            |            |            |             |             |      |
|-------------|------------|------------|------------|-------------|-------------|------|
| ggcagagggg  | gcatgagcag | gaggaggatt | accgctacga | ggtgctcacg  | gccgagcaga  | 60   |
| ttctacaaca  | catgggtgna | atgtatccgg | gaggtcaacg | aggtcatcca  | gaatccagca  | 120  |
| actatcacaa  | gaatactcct | tagccacttc | aattgggata | aagagaagct  | aatggaaagg  | 180  |
| tactttgatg  | gaaacctgga | gaagctcttt | gctgagtgtc | atgtaartaa  | tccaagttaa  | 240  |
| aagtctogaa  | cacgccagat | gaatacaagg | tcatcagcac | aggatatgcc  | ttgtcagatc  | 300  |
| tgctacttga  | actaccctaa | ctcgtatttc | actggccttg | aatgtggaca  | taagttttgt  | 360  |
| atgcagtgtc  | ggagtgaata | tttaactacc | aaaataatgg | aagaaggcat  | gggtcagact  | 420  |
| atctcgtgtc  | ctgctcatgg | ttgtgatata | ttagtggatg | acaacacagt  | tatgcgcctg  | 480  |
| atcacagatt  | caaaagttaa | attaaagtat | cagcatttaa | taacaaatag  | ctttgtagag  | 540  |
| tgcaatogac  | tgttaaagtg | gtgtcctgcc | ccagattgcc | accatgttgt  | taaagtccaa  | 600  |
| tatcctgatg  | ctaaacctgt | tcgtcgcaaa | tgtggcgccc | aattttgctt  | taactgtgga  | 660  |
| gaaaattggc  | atgatcctgt | taaatgtaa  | tggttaaaga | aatggattaa  | aaagtgtgat  | 720  |
| gatgacagtg  | aaacctccaa | ttggattgca | gccaacacaa | aggaatgtcc  | caaatgccat  | 780  |
| gtcacaattg  | agaaggatgg | tggttgtaat | cacatggctc | gtcgtaacca  | gaattgtaaa  | 840  |
| gcagagtctt  | getgggtgtg | tcttggtcca | tgggaaccac | atggatctgc  | ctgggtacaac | 900  |
| tgtaaccgct  | ataatgagga | tgatgcaaag | gcagcaagag | atgcacagga  | gcgatctagg  | 960  |
| gcagccctgc  | agaggtacct | gttctactgt | aatcgctata | tgaaccacat  | gcagagcctg  | 1020 |
| cgtcttgagc  | acaaactata | tgctcagggt | aaacagaaaa | tggaggagat  | gcagcagcac  | 1080 |
| aacatgtcct  | ggattgaggt | gcagtctctg | aagaaggcag | ttgatgtcct  | ctgccagtgt  | 1140 |
| cgtgccacac  | tcatgtacac | ttatgtcttc | gctttctacc | tcaaaaagaa  | taaccagtcc  | 1200 |
| attatctttg  | agaataacca | agcagatcta | gagaatgcca | cagaggtgct  | ctcgggctac  | 1260 |
| cttgaacagag | atatttccca | agattctctg | caggatataa | agcagaaaag  | acaagacaag  | 1320 |
| tacagatact  | gtgagagtgc | acgaagggtt | ttgttacagc | atgtgcatga  | aggctatgaa  | 1380 |
| aaagatctgt  | gggagtacat | tgaggactga | gaatggccct | gcataaaaatg | aactctgaaa  | 1440 |
| actttaccat  | ctagagtgtc | catgcaatta | aaacaaaaca | aacacaaaaca | aggaggcact  | 1500 |

```

aagcctatctc tgacaccact ggtctgtagt accagaattg ttttgttaat ggaaagtcca 1560
agtaaattat attgtaataa aaaggtagat aaaccattgt acaacagtat tctaggccgc 1620
caacaaaagt gtgacagaca cactaaaagc cctccaactt taacttgtaa cgtagcttca 1680
ttctcaaagc tgactccttt tttttctttt tctttttcct gagtgtagta cagttaaaat 1740
ttcaaacagc tccttgacac tgcctttcat gttcaaacca gccattttgt tgtactttgg 1800
taaaggacct ctctcccttc ctccctaca catacagata cacccacaca cagactgact 1860
ctctttctct catacccaa ggtcatgagt gaatgatgct tagttccttg taaagaaaat 1920
cttgggatgg ggaaaggggt aggcagcaag aggattcaac aaacgaaaaa cataaaaact 1980
ttgtatatga cttttraaac aagaggacaa cacagtattt ttcaaaattg tatatagcgc 2040
atatgcatgg acaaagcaag cgtggcacgt gtttgcataa tgtttaatra caaaaaata 2100
tttattcttc aaaaatcttc aagattatgt ctatttgcgt tgcattttct ttcagtttgc 2160
ttatctttcc cgggrtgagg ttgggataaa ggtgtgtcgg tttagcacct ctggaagacc 2220
tatctagagc tctttcactt tccgtgaggt attttgcccy tcttggtgtt ggtatgtctg 2280
ttgcccgcga tgggctncay gccttgaatt cctgctcttg atcagggaca agggagggtca 2340
agctctgact aatgccatga cctgattaag ggttacagca gggagttttg ttgctacagc 2400
tcatgaatta acctgtccca acctaatccc cctccatggc atcatgcctc taccacagcc 2460
tttgtgtgcc catgttatgc acacagctgt aggcattctt aagtccctg tgcacccag 2520
ttggaagcatt ttaaaatttc ttttactttt tggttttccc ttaattgctg cttttcagat 2580
tttagttatg gctcgtctgc tcaccccttc tctacattag ggtgtcaaaag agaattgttt 2640
gctttaaata taaatagcca ttcatattag ctcagattgt gaattcaaaa tgggtggatac 2700
cgaaattgct tgtgtgtgtt gctgtgggtt tggtttgaag gcaaacaccc ctagaacatg 2760
atattcccat ctagtgcatt taaatagaaa tcaactgagt tgcgtgcttt ttattgtcag 2820
cagataggag aattaataat gcatttttagc tgtgatgtcc atttttatga aattcctact 2880
aagagctatg ttaaaagtaa aggatgggtg tggttgtatt aactatatac ctgtttaggc 2940
cattctggct gtggtatttt tcaataggtc agcatctgta aatctgtcag ttttatacag 3000
gagtgcagag tgaactaggc aactagatta agaggtctaa atatgaaata ccagttgagg 3060
ctgaggacct ctctgtcttc ctttaaatgt cttttgcta gggagtgttt accattttgtg 3120
aggcagcttt gtctgtcttc acactgtaca tccattact ccattgggaa gtaggttcac 3180
tttctctctg ctttttgctt aagttaggct ttgctgaatc aaccctact ttccttttag 3240
aaaagggtgt tacaggagat ttactggcaa ctgttctttt cccatcaaaa atcagtgaat 3300
gtctgtctgag tataaatgct gtttccttaa accactgtgc gctttaggat caactttacc 3360
tgtacctttt ctctttctct ccttgccac ctcaggtgca aatctgaact cagtgtctgc 3420
ttcttccatt ttctgtctc tctccctct tccccatta tccatatgac attattttac 3480
ttcaaattgac agcatcaatc ttaaaaagat atacattaaa actaaggagt ttttttaaag 3540
aaagcctgaa taagttcctt tccctggtaa ctttgaaaag cagtcagagt tgctatatag 3600
atatatgtgg ctcttttaa atgctttgtg tatgtgtggt gtttaaaaaa aaaaaaaaaa 3660
ttcggggggg ggcccggtnc ccat 3684

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<210> 116

<211> 1965

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1136)

<223> n equals a,t,g, or c

&lt;400&gt; 116

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| aagaaagggt  | attaaaaatc  | tagatcacat  | atggaccggg | gaagggtttt  | naccctctgt  | 60   |
| tagtgacatc  | gagtctccca  | ctagacaaaa  | taggtggaaa | aatctctcga  | gggctcacat  | 120  |
| tgttttgtca  | tcttcaggaa  | aaacaccacc  | aggccatacc | acagcctgcc  | cagtggaggcg | 180  |
| gtctttgcca  | acagcaaccg  | gatgctgggt  | gtggcctttg | ggctgctggg  | gctctacatc  | 240  |
| cttctggctt  | catcttggaa  | gcgcccagag  | ccggggatcc | tgaccgacag  | acagcccctg  | 300  |
| ctgcatgatg  | gggagtgaag  | cagcagggaag | gggctcccaa | gagctcctgg  | tgggtgcagcc | 360  |
| tgtgctcccc  | tcagaagctc  | tgctcttccc  | agggctcccc | gctggcttca  | gcaggcgact  | 420  |
| ttcttccaat  | gctggggocca | gacttcttgc  | ctgggtgctg | gcctgcccctc | tcgggncggc  | 480  |
| ttgctgcctg  | tctgctttcc  | ttgggtggyt  | tgctgggtgc | tgggcctgcc  | ctctccggcc  | 540  |
| gcttgctgcc  | tgtctgcttt  | ccttggtggc  | tttgctgggt | gctgggcctg  | ccttctctgg  | 600  |
| ctgcttgctg  | cctgtctgct  | ttccttggtg  | gctttggctt | ctgcaactct  | tggcgctcasc | 660  |
| tctcaggctc  | tcatttcaca  | cgaggtcctc  | ctcgctctgg | ccgctcttgc  | tgctcctgtc  | 720  |
| tgaagawacc  | agactgattt  | cctcttaaga  | ctcctaggga | tgtggtgaag  | agctgggact  | 780  |
| caagtgcagt  | ccacgggtgt  | aaacatgagg  | gargtgaggt | gtccgtccac  | ttccccata   | 840  |
| aagggtgtgca | tttcagttag  | gctgccccgc  | cacagagcag | gcttcactct  | ctctgccatc  | 900  |
| cagccccatc  | tggatgtgag  | gtgggttgga  | gacatcatgg | ggtgattgca  | gaaaggggga  | 960  |
| gtggcgcccc  | acgcagcttc  | tgctgaggag  | ctgaccgctc | tgagctgttc  | tgtttcgrat  | 1020 |
| tgctgctctg  | tgtctgcatg  | tattgtgacc  | gtgctggctc | acctcttcca  | gctgctgcta  | 1080 |
| cagctgaggg  | ctggatcccc  | gcctttccct  | gtgacttacg | tgtctgtcac  | cggcangcag  | 1140 |
| ccctacaaat  | cctgggtgacc | tgctctccca  | agaacagagc | ctgtccccag  | atgtcccagt  | 1200 |
| agcgatgagt  | aacagagggt  | gctgtggact  | tcctctacct | ctccttgotg  | gatcagggcc  | 1260 |
| ttcctgcctc  | ccgctgggca  | ggtctggcct  | tgctctcttg | gcagggcccc  | agcccctctg  | 1320 |
| accactctgc  | agctcaccat  | gcagctgatg  | ccaaagtgtg | ggtgtccagt  | gtgcagcagc  | 1380 |
| cctgggagcc  | actgccacct  | tcagaggggt  | tccttgctga | gacccacatt  | gcttcacctg  | 1440 |
| gccccaccat  | ggctgcttgc  | ctggcccac   | ctagcgttct | gtgccatgct  | agagcttgaq  | 1500 |
| ctgttgctct  | tcttcagggg  | aggaaatagg  | gtggagagcg | ggaagggtct  | tgctcctaag  | 1560 |
| tgttgctgct  | gtggcttttt  | tgcttctctc  | aaagacgcac | tgccaggctc  | caagcttcag  | 1620 |
| actgctgtgc  | ttagtaagca  | agtgagaagc  | ctggggtttg | gagcccaact  | actctctggc  | 1680 |
| agcatcagca  | tcctactcct  | ggcaacatca  | ggccaacgtc | caccccagcc  | tcacattgcc  | 1740 |
| agatgttggc  | agaagggcta  | atattgaccg  | tcttgactgg | ctggagcctt  | caaagccact  | 1800 |
| gggatgtcct  | ccaggcacct  | gggtcccatg  | accagctccc | cgtctccata  | ggggtaggca  | 1860 |
| tttcaactgg  | ttatgaagct  | cgagtttcat  | taaatatgtt | aagaatcaaa  | gctgtctttg  | 1920 |
| ttcaggctgc  | tataacaaaa  | atataatagc  | ctgggtggct | taaac       |             | 1965 |

&lt;210&gt; 117

&lt;211&gt; 503

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| agtgatcccc | ttgcctcggc | ctccccaaat | gctggaattg | taagcgtggg | cctctgcacc  | 60  |
| cggcctgggc | cgcaacttaa | aaacgcacag | ccaccattcc | ctytccagaa | agcaccacaga | 120 |
| tgcccttggg | agaaccagcc | tcctccatgg | aggaaagctt | gggatctgcc | ttcccacctg  | 180 |
| gggaggagag | ggatctgtgg | aaaatccttc | tgacggactt | ccccctcagt | cctgatccat  | 240 |
| actcaatagt | agaaaaagta | agaaatatac | aaagatagca | gatacacgga | gacagttccc  | 300 |
| caaatactgt | agcgawtagc | gcagaagcaa | tattgaagac | ctaatagctg | agacatttcc  | 360 |
| agaactgata | aagtgcattc | agccacagat | caagcagccc | agaaaaattc | aggcagcatc  | 420 |
| aacaaataaa | tagccccaca | tgcccccggt | aaaatgcaga | agaccaaaca | aaaaagtccg  | 480 |
| gtcaacagcc | agagttaaa  | agg        |            |            |             | 503 |

&lt;210&gt; 118

&lt;211&gt; 1071

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| tcgacccacg  | cgtccgggtca | ctcccaagat  | ggcggaccta  | ctggggtcca | tcctgagctc | 60   |
| catggagaag  | ccacccagcc  | tcgggtgacca | ggagactcgg  | cgcaaggccc | gagaacaggg | 120  |
| cgcccgctg   | aagaaactac  | aagagcaaga  | gaaacaacag  | aaagtggagt | ttcgtaaaag | 180  |
| gatggagaag  | gaggtgtcag  | atttcattca  | agacagtggg  | cagatcaaga | aaaagtttca | 240  |
| gccaatgaac  | aagatcgaga  | ggagcatact  | acatgatgtg  | gtggaagtgg | ctggcctgac | 300  |
| atccttctcc  | tttggggaag  | atgatgactg  | tcgctatgtc  | atgatcttca | aaaaggagtt | 360  |
| tgcacccctca | gatgaagagc  | tagactctta  | ccgtcgtgga  | gaggaatggg | acccccagaa | 420  |
| ggctgaggag  | aagcggaagc  | tgaaggagct  | ggcccagagg  | caagaggagg | aggcagccca | 480  |
| gcaggggctt  | gtggtggtga  | gccctgccag  | cgactacaag  | gacaagtaca | gccacctcat | 540  |
| cggcaaggga  | gcagccaaaag | acgcagccca  | catgctacag  | gccaataaga | cctacggctg | 600  |
| tgtgcccggtg | gccaataaga  | gggacacacg  | ctccattgaa  | gaggctatga | atgagatcag | 660  |
| agccaagaag  | cgtctgccc   | agagtgggga  | agagtggcgg  | ccaacctcct | aggcgccccg | 720  |
| cccagctccc  | tttgacctct  | ggggcagggc  | agggggcagg  | gagagacaag | gctgctgcta | 780  |
| ttagagccca  | tcctggagcc  | ccacctctga  | accacctcct  | accagctgtc | cctcaggctg | 840  |
| ggggaaaaca  | ggtgtttgat  | ttgtcaccgt  | tggagcttgg  | atatgtgctg | ggcatgtgtg | 900  |
| tgtgtgtgtg  | agagtgtgaa  | tgcacaggtg  | ggtatttaaat | ctgtattatt | ccccgttctt | 960  |
| ggaattttct  | tycccatggg  | gctgggggtac | tttacattca  | ataaatactg | tttaacccaa | 1020 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaag | g          | 1071 |

&lt;210&gt; 119

&lt;211&gt; 1101

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (376)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (395)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1101)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 119

|            |            |             |             |            |             |     |
|------------|------------|-------------|-------------|------------|-------------|-----|
| gggcacagct | gaagctgcag | acctccccag  | gggatggctc  | ctctcccca  | ggagccccga  | 60  |
| ggcaggggag | gcagaaagcc | tgggtctctg  | gggggtggcct | gcggacagct | gtgctgtggg  | 120 |
| ccgggggctg | ggcctgtccc | acagggnctg  | ggagctcgtg  | gttctgagca | gccagctggg  | 180 |
| tgggtgtctg | ggatagctgg | gaggcacagc  | ggctgccatg  | tgggactggg | actggagtgc  | 240 |
| tccttggtct | tggcctctgt | ggctcagcct  | tgcctctggtc | tgcctgagtg | caggggccaa  | 300 |
| ggggcacagg | gccagtggag | ccggccacgc  | tcggggcctc  | acctgtgaga | tggggtcgga  | 360 |
| atttkacaca | gcctanggtc | tgggtctctg  | tkgtngamcg  | tggactyctk | agaacgggag  | 420 |
| tgtgtgtcct | gaaaggcgtg | gttgagagacc | agctgctttt  | ctcgtctgtt | ttctcttagg  | 480 |
| agattaaaca | aaaacagaaa | gcacaagacg  | aactcagtag  | cagaccccag | actctccccct | 540 |
| tgccagacgt | ggttccagac | ggggagacgc  | acctcgtcca  | gaacgggatt | cagctgctca  | 600 |



|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| acgggcatgc | gccggggggc | gtcccaaaacc | tcgcagggtc | ccagcaggcc | aaccggcacc | 660  |
| acggactcct | gggtggcgcc | ctggcgaact  | tgtttgtgat | agttgggttt | gcagcctttg | 720  |
| cttacacggt | caagtacgtg | ctgaggagca  | tcgcgcagga | gtgaggccca | ggcgccgaga | 780  |
| cccaaggcgc | cactgagggc | accgcgcacc  | agagcgtgac | ctcggcaggc | tggacacact | 840  |
| gccagcaca  | ggcagaccca | ccaggctcct  | aggtttagct | tttaaaaacc | tgaaagggga | 900  |
| agcaaaaacc | aaaatgtgtg | actgggcttt  | ggaggagact | ggagcctcag | cctgtctctg | 960  |
| gccacgggcc | gctggggctg | gtgtgggtgg  | gcctgtgtgt | ctggatttgt | agcttatctt | 1020 |
| ccgtgttgtc | tttggacctg | ttttagtaaa  | cccgtttttc | attctaaaaa | aaaaaaaaaa | 1080 |
| aaactttggg | ggggggcccc | n           |            |            |            | 1101 |

&lt;210&gt; 120

&lt;211&gt; 282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agcttctctg | tcagttcttg | aactctgggs | tctcttgaa  | ctttctcac  | ccctctcagc | 60  |
| ctgaatatcc | cttccatgga | ttccactcaa | ccagactttg | gatctgtgcc | tacttaatca | 120 |
| accttatctt | tgcaatatgt | tcgggcccac | cttccactcc | ttggttcttg | ttctctcttg | 180 |
| gcctaacttg | tcccttctcc | acttcacatc | ccgggtggga | cagcattcct | ccttctctcc | 240 |
| aacctccctc | cgtctcaraa | aaaaaaaaaa | aaaaaaaaaa | tt         |            | 282 |

&lt;210&gt; 121

&lt;211&gt; 2635

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2605)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 121

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| taagggggtg  | tgtgtccacc  | tcctcctgac | ccttaacact  | cctgtcctgc | ccagaccaac  | 60   |
| agagagagct  | gtccctgaga  | ccccggagag | aagcagctgc  | cgaaagctgc | agcctttccg  | 120  |
| cactctgaga  | ccatgatctt  | cctcctgcca | ggggagagcc  | acccacaggc | catgtccagc  | 180  |
| ccacttcccc  | tcagccccc   | gggyttccct | ctggcccttc  | tgaggattcc | ctagggctgc  | 240  |
| ccgcagaggg  | ggyttcccca  | agctctgttt | tgaagcctgc  | aatgtggaaa | agtgagaagt  | 300  |
| cagaggggaa  | aggacagggt  | cagccggggt | ctgaggccac  | acctcacacc | tcgctgttcc  | 360  |
| ccaacatccc  | ctgagcagtg  | tgagctcacc | tcaccagatg  | agaagaggcc | ctgtgcattt  | 420  |
| ytcttgtttg  | tttgttctgt  | ttttccccc  | ccatccagtg  | tctcctcagc | aaagcaaatt  | 480  |
| ccttaacacc  | tttgggtggag | aatttcttac | ccagacttgg  | ggctgtgatg | cccttcagtg  | 540  |
| cgtgggtgagt | gcagcgtgtg  | tgctgtgtgc | tggtgtgtgaa | cctgggggcc | atcctgggtg  | 600  |
| cctggggagcg | tgaggagagg  | ccccctgtgt | gctgggtgag  | tggtgggtgt | gggggtcaatg | 660  |
| cagtgaggct  | ctctgggtga  | ggctcccaac | ctggcagctc  | ccagcctccc | agcatctgtg  | 720  |
| agcgtctgtt  | ggactttaca  | gaagagccct | atccygtctg  | ccctcactc  | tgccctggaa  | 780  |
| tcaacatctt  | ccgagtcctt  | cttgggggaa | atagcagagc  | cccacttaac | tccataaact  | 840  |
| gcttcccatt  | ccgcagccca  | gttctgattg | ttgagggtgc  | gcgtcgttcc | agggtcccca  | 900  |
| gtccctctct  | tctcctgtcc  | tctctctgtc | cttcacctcc  | ccactccagc | cccggtcag   | 960  |
| ttcagggaaa  | tgctgttcca  | yatcagccct | ctgctctctg  | aggcagccgc | gcctctgact  | 1020 |
| ggagctact   | tgaaaactct  | gctcttgcta | ggattggagt  | ctacctatct | cttccatttg  | 1080 |
| tccagctgg   | agttctggaa  | ctttctctct | cgggggtggg  | gtgggggttg | ttaaggatgc  | 1140 |
| tggggggcct  | ggggaaggaa  | ggagtccaga | ggaagggtgt  | ccccgtctct | cttgatgtca  | 1200 |
| ccctccgctc  | ctgggacacg  | tgctctctct | gtctctgggt  | cttctggctg | tgcacgtttg  | 1260 |
| tgtgtccttg  | ttaatatgtt  | ttaggaagaa | agcaaaagg   | actgaactag | cctctggtag  | 1320 |
| gattgcaggg  | gtccagcctt  | gcctgtttcc | gaagccccc   | cactgccttt | cgccccactg  | 1380 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| agactgggtcc | cctcaaaagg | tagacaaaac | agcagctccc | tgtggagctg | aagggcggcc | 1440 |
| tcaaagtggc  | tttttgttag | acaagggtta | ggtttcctca | tgagcaagg  | tgagatcgg  | 1500 |
| tccttcctca  | gctccttgat | ttgtgacctt | gaccaagggg | cctgccaccc | agccctcca  | 1560 |
| gtgccctctc  | ctcgatgcct | cgctccttcc | tgccccact  | cccctggctt | aggcaggtag | 1620 |
| gggaattagg  | gccatgctgg | aagaagctta | accatgtgtt | caaagaacgg | tttcttgcct | 1680 |
| gcttggtcct  | ggaactcccc | ttggctgccc | caggcctcct | tgccccatgg | gtgctggggg | 1740 |
| aggtggatgt  | cagatctggg | aggttgagc  | agagaaaata | aatgtgcctt | gagagaccac | 1800 |
| tcagagaggg  | tccaagggg  | atggagaagg | aagcatggcc | tgggagcttg | gaagggargg | 1860 |
| gtggtgggtg  | gcgcatctt  | gactgcccc  | tggtgtccca | cacgtggggg | gtggtcacc  | 1920 |
| cycttcactc  | cagcccgctt | gccttcagcc | ttccatgagc | ttcacctgct | tccaacttca | 1980 |
| ctttggaggg  | gggtgggtcc | gttggcatca | acacggggac | cctctgcttc | accaaagccc | 2040 |
| gagccctcag  | cccctgggga | gaacaaatgg | ctgagctttg | atacctgggg | tcgtcgagag | 2100 |
| gctgcgggct  | ggcggcagtc | ccaggggaga | gacaccacag | aaggagaccc | agacatccc  | 2160 |
| aggaagtcc   | cagcagagca | aactgctttc | cagcctgaag | cctgcttaaa | ctgtgtgatg | 2220 |
| tgcaataact  | gagcttagag | ttaggaattg | tggtcaagtg | cttggatttc | cgtctgtaga | 2280 |
| tttaactgct  | gaaattgtat | ctctcagtaa | ttttagatgt | cttttaaaaa | attgaaaaac | 2340 |
| aaagtgttag  | actgtgtgct | tggtgcttga | tgggcactca | agagtcccg  | gagtcaccca | 2400 |
| gcctgcctt   | tcccctgctc | ccccatcctc | tcacgtcccg | cccgccctcc | acttggggac | 2460 |
| cctgcctcgt  | gtcgtcttta | tctgcctatt | actcagccta | aggaaacaag | tacactccac | 2520 |
| acatgcataa  | aggaaatcaa | atgttatatt | taagaaaatg | gaaaataaaa | actttataaa | 2580 |
| caccaaaaaa  | aaaaaaaaaa | acccnggggg | ggggccggta | acccatttcg | cctaa      | 2635 |

&lt;210&gt; 122

&lt;211&gt; 994

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 122

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| gaattcggca  | gaggttcggc | gaagataggg | aataaggaag  | cacaggagta | ggggagaagg  | 60  |
| aagcacagga  | gtaggggaga | tatacagcgg | tcaggataag  | ggggaaagg  | cggtgggttc  | 120 |
| scaagaggtg  | aaacaagatg | tgagagacaa | ggggtaggga  | agaaatgggg | cagcgggttag | 180 |
| gttcagaagc  | gcatagaccg | tggcgggacg | gcaatgcgag  | gggcacagaa | aggaaactgag | 240 |
| gggtgggcta  | ttttaargga | gatggctcct | cagccctctt  | ytcttctgct | tagttctcct  | 300 |
| cctccaggcc  | gcgcgcgat  | atgtcgtccg | gaaaccagcc  | cagtcctagc | tggatgatga  | 360 |
| cccacctcct  | tctacgtctg | tcaaagacta | ccagaatgtc  | cctggaattg | agaaggttga  | 420 |
| tgatgtcgtg  | aaaagactct | tgtcttttga | aatggccaac  | aagaaggaga | tgctaaaaat  | 480 |
| caagcaagaa  | cagtttatga | agaagattgt | tgcaaaccca  | gaggacacca | gatccctgga  | 540 |
| ggctcgaatt  | attgccttgt | ctgtcaagat | ccgcagtat   | gaagaacact | tggagaaaca  | 600 |
| tcgaaaaggac | aaagcccaca | aacgctatct | gctaattgagc | attgaccaga | ggaaaaagat  | 660 |
| gctcaaaaaa  | ctccgtaaca | ccaactatga | tgtctttgag  | aagatatgct | gggggctggg  | 720 |
| aattgagtac  | accttcccc  | ctctgtatta | ccgaagagcc  | caccgccgat | tcgtgaccaa  | 780 |
| gaaggctctg  | tgcatctcgg | ttttccagga | gactcaaaag  | ctgaagaagc | gaagaagagc  | 840 |
| cttaaaggct  | gcagcagcag | cccaaaaaa  | agcaaaagcg  | aggaacccag | acagccctgc  | 900 |
| caaagccata  | ccaaagacac | tcaaagacag | ccaataaatt  | ctgttcaatc | atttaaaaaa  | 960 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaagggga | gggg        |            |             | 994 |

&lt;210&gt; 123

&lt;211&gt; 1542

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1445)

&lt;223&gt; n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1515)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1520)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1535)  
 <223> n equals a,t,g, or c

<400> 123  
 ggcasagcca cctcgggcccc ggggtccgaa ggggtcggg ggcgcccttt cggtoaacat 60  
 cgtagtccac cccctcccca tccccagccc ccggggattc aggcctcgcca gcgcccagcc 120  
 agggagccgg ccgggaagcg cgatgggggc ccagcccgcc tcgctcctgc tctgtctct 180  
 gctgttcgcc tgetgctggg cgcccgccgg ggccaacctc tcccaggacg acagccagcc 240  
 ctggacatct gatgaaacag tgggtggctgg tggcaccgtg gtgctcaagt gccaaagtga 300  
 agatcacgag gactcatccc tgcaatggtc ttaaccctgc tcagcagact ctctactttg 360  
 gggagaagag agcccttcga gataatcgaa ttcagctggg tamctctacg ccccacgagc 420  
 tcagcatcag catcagcaat gtggccctgg cagacgaggg cgagtacacc tgctcaatct 480  
 tcaactatgcc tgtgcgaact gccaaagtccc tcgtcactgt gctaggaatt ccacagaagc 540  
 ccacatcac tggttataaa tcttcattac gggaaaaaga cacagccacc ctaaactgtc 600  
 agtcttctgg gagcaagcct gcagcccgcc tcacctggag aaagggtgac caagaactcc 660  
 acggagaacc aaccgcata caggaagatc ccaatggtaa aaccttact gtcagcagct 720  
 cgggtgacatt ccagggttacc cgggaggatg atggggcgag catcgtgtgc tctgtgaacc 780  
 atgaatctct aaaggagct gacagatcca cctctcaacg cattgaagtt ttatacacac 840  
 caactgcgat gattaggcca gacctcccc atcctcgtga gggccagaag ctgttgctac 900  
 actgtgaggg tcggggcaat ccagtccccc agcagtacct atggggagaag gagggcagtg 960  
 tgccaccct gaagatgacc caggagagtg cctgatctt ccttttctc aacaagagtg 1020  
 acagtggcac ctacggctgc acagccacca gcaacatggg cagctacaag gcctactaca 1080  
 ccctcaatgt taatgacccc agtcgggtgc cctcctctc cagcacctac cagccatca 1140  
 tcggtgggat cgtggctttc attgtcttcc tgotgtcat catgtctatc ttcttggcc 1200  
 actacttgat cgggcacaaa ggaacctacc tgacacatga ggcaaaaggc tccgacgatg 1260  
 ctccagacgc ggacacggcc atcatcaatg cagaaggcgg gcagtcagga ggggacgaca 1320  
 agaaggaata tttcatctag aggcgcctgc ccacttcttg cggccccag ggccctgttg 1380  
 ggacttgctg gggcgctcac caaccggac ttgtacagag caaccgcagg ggccgscct 1440  
 ccgntgtgt cccagccca ccacccctc tgttacagaa tgytkgttt ggggtcggt 1500  
 ttcgtwattg gtttnggatn ggggaaggga ggganggcgg gg 1542

<210> 124  
 <211> 1390  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (498)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (499)  
 <223> n equals a,t,g, or c

&lt;400&gt; 124

|             |            |             |             |            |             |      |
|-------------|------------|-------------|-------------|------------|-------------|------|
| caagctctaa  | tacgactcac | tatagggaaa  | gctggtacgc  | ctgcaggtag | cggtcgggaa  | 60   |
| ttcccgggtc  | gacccacgcg | tccgggcctc  | aggggtggacg | catgggtctg | cactgaggcc  | 120  |
| ctcgtcatgg  | tggcgccctg | gtggtacctg  | gtagcggcgg  | ctctgctagt | cggctttatc  | 180  |
| ctcttctctga | ctcgcagccg | gggcggggcg  | gcatcagccg  | gccaagagcc | actgcacaat  | 240  |
| gaggagctgg  | caggagcagg | cggggtggcc  | cagcctgggc  | ccctggagcc | tgaggagccg  | 300  |
| agagctggag  | gcaggcctcg | gcgcgggagg  | gacctgggca  | gccgcctaca | ggcccagcgt  | 360  |
| cgagcccagc  | gggtggcctg | ggcagaagca  | gatgagaacg  | aggaggaagc | tgtcatccta  | 420  |
| gcccaggagg  | aggaaggtgt | cgagaagoca  | gcggaaaytc  | acctgtcggg | gaaaattgga  | 480  |
| gctaagaaac  | tgcggaannt | ggaggagaaa  | caagcgcgaa  | aggcccagck | tgaggcagag  | 540  |
| gaggctgaac  | gtgargwgcg | gaaacgactc  | gagtcccagc  | gcgaatgagt | ggaagaagga  | 600  |
| ggaggagcgg  | cttcgcctgg | aggaggagca  | gaaggaggag  | gaggagagga | aggcccgcga  | 660  |
| ggagcaggcc  | cagcgggagc | atgaggagta  | cctgaaactg  | aaggaggcct | ttgtggtgga  | 720  |
| ggaggaaggc  | gtaggagaga | ccatgactga  | ggaacagtcc  | cagagcttcc | tgacagagtt  | 780  |
| catcaactac  | atcaagcagt | ccaaggttgt  | gctcttgga   | gacctggctt | cccagggtggg | 840  |
| cctacgcact  | caggacacca | taaattcgcat | ccaggacctg  | ctggctgagg | ggactataac  | 900  |
| aggtgtgatt  | cagcaccggg | gcaagtccat  | ctacataacc  | ccagaggaac | tgcccgccgt  | 960  |
| ggccaacttc  | atccgacagc | ggggcgccgg  | gtccatcgcc  | gagcttgccc | aagccagcaa  | 1020 |
| ctccctcatc  | gcctggggcc | gggagtcctc  | tgcccagcc   | ccagcctgac | cccagtcctt  | 1080 |
| ccctcttgga  | ctcagagttg | gtgtggccta  | cctggctata  | catcttcata | cctccccacc  | 1140 |
| atcctgggga  | agtgatggtg | tggccaggca  | gttatagatt  | aaaggcctgt | gagtactgct  | 1200 |
| gagcttggtg  | tggcttggtg | tggcagaagg  | cctggcctag  | gatcctagat | aagcagguga  | 1260 |
| aatttaggct  | tcagaatata | tccgagaggt  | ggggagggtc  | ccttggaaag | tggtgaagtc  | 1320 |
| ctgttcttat  | tatgaatcca | ttcattcaag  | aaaatagcct  | gttgcaaaaa | aaaaaaaaaa  | 1380 |
| aaaaactcga  |            |             |             |            |             | 1390 |

&lt;210&gt; 125

&lt;211&gt; 1288

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1286)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 125

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| ggcgcgcggg | tgaaaggcgc  | attgatgcag  | cctgcggcgg  | cctcggagcg  | cggcggasca | 60   |
| gacgctgacc | acgttctctc  | cctcgggtctc | ctccgcctcc  | agctccgcgc  | tgcccggcag | 120  |
| ccgggagcca | tgcgacccca  | gggccccgcg  | gcctccccgc  | agcggctccg  | cggcctcctg | 180  |
| ctgctcctgc | tgctgcagct  | gcccgcgcgc  | tcgagcgcc   | ctgagatccc  | caaggggaag | 240  |
| caaaaggcgc | atccggcaga  | gggaggtgg   | ggacctgtat  | aatggaatgt  | gcttacaagg | 300  |
| gccagcagga | gtgcctggtc  | gagacgggag  | ccctggggcc  | aatggcattc  | cgggtacacc | 360  |
| tgggatccca | ggtcgggatg  | gattcaaagg  | agaaaagggg  | gaatgctctga | gggaaagcct | 420  |
| tgaggagtcc | tggacaccca  | actacaagca  | gtgttcatgg  | agttcattga  | attatggcat | 480  |
| agatcttggg | aaaatttgcg  | agtgtacatt  | tacaaagatg  | cgttcaaata  | gtgctctaag | 540  |
| agttttgttc | agtggctcac  | ttcggctaaa  | atgcagaaat  | gcatgctgtc  | agcgttggtg | 600  |
| tttcacattc | aatggagctg  | aatgttcagg  | acctcttccc  | attgaagcta  | taatttat   | 660  |
| ggaccaagga | agccctgaaa  | tgaattcaac  | aattaatatt  | catcgcaact  | cttctgtgga | 720  |
| aggactttgt | gaagggaattg | gtgctggatt  | agtggatggt  | gctatctggg  | ttggcacttg | 780  |
| ttcagattac | ccaaaaggag  | atgcttctac  | tggttggaat  | tcagttcttc  | gcatcattat | 840  |
| tgaagaacta | ccaaaataaa  | tgctttaatt  | ttcatttgct  | acctcttttt  | ttattatgcc | 900  |
| ttggaatggt | tcacttaaat  | gacattttta  | ataagtttat  | gtatacatct  | gaatgaaaag | 960  |
| caaagctaaa | tatgtttaca  | gaccaaagtg  | tgattttaca  | tgtttttaaa  | tctagcatca | 1020 |
| ttcattttgc | ttcaatcaaa  | agtgggttca  | atattttttt  | tagttgggtt  | gaatactttc | 1080 |
| ttcatagtca | cattctctca  | acctataatt  | tggggaatatt | gtctg-ggtct | tttgtttttt | 1140 |

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| ctcttagtat | agcatctttaa | aaaaaatata | aaagctacca | atctttgtac | aatttgtaaa | 1200 |
| tgtraagaat | tttttttata  | tctgttaa   | aaaaattatt | tccmacaacc | ttaaaaaaaa | 1260 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaanaa   |            |            |            | 1288 |

<210> 126  
 <211> 1517  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (159)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1123)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1510)  
 <223> n equals a,t,g, or c

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 126   |             |             |             |             |             |      |
| agtggcctaa  | agggcatcggt | ttagggaatta | ctgggaagta  | tcttcaaagt  | aatacatgag  | 60   |
| aaacattcct  | tcctaaatcc  | ttcattatat  | tgaatatcgt  | attaattggt  | tttcagaggc  | 120  |
| taaaattaacc | atgtattcct  | gcaataaatg  | tcacttgtnt  | cttgatatata | atccttttta  | 180  |
| tataattacog | gattgattca  | ttagtatttt  | gttgaggatt  | ttctgtgtcta | tattcataag  | 240  |
| agatgctggg  | ctgcagtttt  | ctttttttgt  | gataatctgg  | tttttgtatc  | agtaatacag  | 300  |
| gccccatgaa  | acgagctggg  | aagtgttcac  | ctctcttgta  | ttttttcaag  | agtttgtgaa  | 360  |
| gaattgctat  | taattcttta  | aatgtctggg  | agaatctacc  | attgaaatca  | tgtgtcctgg  | 420  |
| gctttttttt  | gaggggaagt  | ttctgataac  | taattcagta  | tctacttttt  | atagctctgt  | 480  |
| tcagattttg  | cttcttcctg  | agtttagttt  | ggtaatttgt  | gtatctctag  | gartttgtcc  | 540  |
| atttcattta  | tctcatttgt  | tggcataaat  | taaaactaaat | ttggcctgag  | cctacctgta  | 600  |
| tatcttgagt  | ccctctgtaa  | ggaactgtag  | cctaacttgt  | acataaacia  | actgaaatcc  | 660  |
| taaattagga  | atgtagtttt  | tgtaacagct  | cctgagtcct  | aggcagtcac  | agcagycaag  | 720  |
| tctgtcaatt  | gcaggctgct  | aactaagcag  | cccatgstca  | aatgaggcaa  | aaacctttgc  | 780  |
| ttttaacaca  | tagtatagct  | ttgtaatcct  | tttcttgcac  | actcgggtaa  | tttcttccct  | 840  |
| tttcattccc  | kgwatcttcc  | akgaatatga  | rtctyocctt  | tttccctcc   | tgtcagtcct  | 900  |
| gctaattggg  | tgtcaatttt  | gttgatcttt  | tgaaraacia  | acctttgggt  | ccactttctt  | 960  |
| gttgcatatg  | ctgartattc  | tcataattgg  | agtggaaagc  | tgatctttga  | ttacttatct  | 1020 |
| tacttagggc  | tgaggagttc  | atggacttcg  | caaaaacctc  | ttgaatctaa  | attgcatcct  | 1080 |
| ctttcctggg  | ttctgggctg  | aaacatgttt  | tttcccatct  | wanawacctt  | tgggtcttttc | 1140 |
| atkggcgatt  | aagactagag  | aaagtcttag  | atmccctgtc  | cttttatgct  | gtcattttgt  | 1200 |
| ttaaaggctt  | tctatgtagt  | aaaactatct  | atatagacia  | aatagagcct  | tgagttgtgg  | 1260 |
| tcttgaattt  | gatcaacatg  | atctaccaca  | ttctgtactg  | gatatttctt  | cacctgctgc  | 1320 |
| tactgtaaac  | catttttatt  | ttggatcttc  | tgtagagtat  | attatcacag  | gtacttttta  | 1380 |
| caggggtgtc  | taatcttttg  | gcttccctgg  | gcacattgaa  | agaagaagaa  | ttgtcttggg  | 1440 |
| ccacacatca  | aatacgctaa  | cactaataat  | agttgatgag  | ctaaaaaaa   | aaaaaaaaag  | 1500 |
| gcaaaaaagn  | cccaaaa     |             |             |             |             | 1517 |

<210> 127  
 <211> 1073  
 <212> DNA  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (495)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 127

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| tgaatctatt | ctttgaacat | tctacaacaa | gaattacatt  | atactgttat  | accagagtac | 60   |
| ttctgcagtg | tgaaatagat | tggtttggaa | aatgaacctg  | gctttgctat  | aaattacatt | 120  |
| cacaggcctt | tttgcaaatg | tgtaacttgc | ctatcaaagt  | agtttgtagg  | gcaaatgcag | 180  |
| aatatatgtc | tccatctggg | aaagtacctt | wtaytcatgt  | gggaaatcaa  | gtagtatcag | 240  |
| aacttggtcc | aatagtccaa | tttgttaaag | ccaagggccca | ttctcttagt  | gatgggctgg | 300  |
| aggaagtcca | aaaagcagaa | atgaaagcct | acatgggaatt | agtcaacaat  | atgctgttga | 360  |
| ctgcagagct | gtatcttcag | tggtgtgatg | aagctacagt  | agggrmgatc  | actcatgmta | 420  |
| ggtatggwtc | tccttaccct | tggtctctgw | wtcataattt  | ggcctatcaa  | aaacagtggg | 480  |
| aagtcaaacg | taagntgaaa | gctattggat | ggggaaagaa  | gactctggac  | caggtcttag | 540  |
| aggatgtaga | ccagtgcctg | caagctctct | ctcaaagact  | gggaacacaa  | ccgtatttct | 600  |
| tcaataagca | gcctactgaa | cttgacgcac | tggtatcttg  | ccatctatac  | accattctta | 660  |
| ccacacaatt | gacaaatgat | gaactttctg | agaagggtgaa | aaactatagc  | aacctccttg | 720  |
| ctttctgtag | gagaattgaa | cagcactatt | ttgaagatcg  | tggtaaaaggc | aggctgtcat | 780  |
| agagttatgt | gttagtctca | ggagtcttaa | cttttgaaat  | atgttttact  | tgaatgttac | 840  |
| attagatatt | ggtgtcagaa | ttttaaaacc | aaattactgc  | tttttgaaac  | ctcaaattat | 900  |
| ataatgtatc | ttatgtatgt | gctttatatt | gttatctgtg  | tatacattaa  | aataattctg | 960  |
| aattatttaa | tctgatatgt | tgtattctgt | atcttgaaat  | ttttgrrtcc  | ttgaaacatg | 1020 |
| catgcattta | aaaataaagc | ttaacaact  | gtaaaaaaaa  | aaaaaaaaaa  | ctc        | 1073 |

&lt;210&gt; 128

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (273)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (294)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 128

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| caaccocctgc | cttttttttg | ttttccattt | gcttggtaga | tcttccctcca | tccctttatt | 60  |
| ttgagcctat  | gtgtgtctct | gcccgtgaga | tgagtctcct | gaatacagca  | cacttactgg | 120 |
| tcttgactct  | gtatccaat  | tgccagtctg | tgtctttcat | tgggagcatt  | tagcccatte | 180 |
| acattttaagg | tkaatatgt  | tatgtgtgaa | tttracytr  | tcattatgwt  | gttagctggg | 240 |
| tattttgctt  | gttagttgat | gcagtttctt | ccnggcacat | atggtcttta  | caanttgga  | 300 |

&lt;210&gt; 129

&lt;211&gt; 1275

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1152)

<223> n equals a,t,g, or c

<400> 129

|            |            |             |             |            |             |      |
|------------|------------|-------------|-------------|------------|-------------|------|
| ggcagagcct | gtccctgctg | cccctgcaaa  | aaaaaccccc  | tctggtgtga | gcaggatggg  | 60   |
| tggaggttat | gtgagctcct | tctcctttcc  | tccagtttcc  | tcttcccttc | tcctccctgc  | 120  |
| ctcttttgct | tttccctttc | ttcctgggtac | cccctgcccc  | ttcctgtatt | ttctcccatc  | 180  |
| gccattctcc | cctctcccac | tgtccctaac  | ccgttcaaac  | tctttccctc | taaatgggtg  | 240  |
| agattttctc | tcaccaagca | caccccagta  | ttaattaaac  | tagctgcaaa | caggcagcaa  | 300  |
| gtggtctacc | atgacagatg | ggttttgtgt  | gtgtgtgtgt  | gtgtgtaatt | gtaataaaaac | 360  |
| atattgarc  | actcaataaa | cacagagtgt  | ctactacatg  | tatcargcac | tatcatagat  | 420  |
| gctaattaac | gaaactgaaa | tggccaggcc  | ctcacagtgg  | ctcatgccta | taatcccagc  | 480  |
| actttgggag | gatgaggcag | gaggatcact  | tgaggccggg  | agttcaagac | cagcctgggc  | 540  |
| aacatagtaa | gactccatct | ctacaaaaaa  | aaaatttttt  | ttattatact | ttaagttttg  | 600  |
| ggttacatgt | gcagaacgtg | tagttttgtt  | acatagggtat | atacgtgcc  | tggtagtgtg  | 660  |
| ctgcacccat | caacccatca | cctacattag  | gtattttctc  | taatgttaac | cctctcctag  | 720  |
| ccccccaccc | cgtgacaggc | cctgggtgtgt | gatgttcccc  | tccctgtgtc | catgtgttct  | 780  |
| cattggtcaa | ctctcaccta | tggagtgaga  | acatgtggta  | tttggttttc | tgatcttgtg  | 840  |
| atagcttgct | gagaatgtkg | gtttccagct  | ttatccacgt  | ccctgcaaag | ggcataaaact | 900  |
| catccctttt | tatggctgca | tagtggtcca  | tggtgtatac  | gtgccacatt | ttcttaactc  | 960  |
| atcattgatg | gacaagtttt | gctattgtga  | atagtgccac  | aataaacata | cgtgtgcgtg  | 1020 |
| tgtctttata | gcagcatgat | ttataatcct  | ttgggtatat  | acccagtaat | gggatcactg  | 1080 |
| agtcaaatgg | tatttctcgt | tctagatccg  | taagggaattg | ccacactgtc | ttccacaatg  | 1140 |
| tttgaactaa | tntacactcc | caccaacagt  | gtaaaagtgt  | ttctattttt | ccacaacctc  | 1200 |
| tccaacatct | gttattttct | gaotttttta  | tgaacgtcat  | tctaactggc | gtgagatggg  | 1260 |
| atctcattgt | ggttt      |             |             |            |             | 1275 |

<210> 130

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (472)

<223> n equals a,t,g, or c

<400> 130

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cngaaacccc | gtgaaccctc | cccgggttaa | aaagccccc  | ctaaatgggg | ggaacgcytc | 60  |
| acacgttata | aaaaagcact | agaatgtttt | gaaagcgaga | aacaacagct | gtgtagggtg | 120 |
| gctagcagtt | agtgttgtac | agaagacaga | catttgtgca | tttytgcatc | ttctaagttt | 180 |
| gctgcaatga | gcatgtatta | ctttcatagt | tataaaacac | atgcaaaatg | ccctttttaa | 240 |
| atgaaaaaaa | atccatgagt | gtaagtgata | tatatgcttt | ggaaagcctg | ggacggtcac | 300 |
| tgtttactct | caatagtatg | tgtttgcctt | tgtctttttg | agacattttg | ttttaatctg | 360 |
| ttgatgacaa | taacctgttg | ataatataac | ttgataacaa | ataaaatgac | ttatgattga | 420 |
| awmaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | nn         | 472 |

<210> 131  
 <211> 1950  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (132)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (225)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (249)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (577)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1933)  
 <223> n equals a,t,g, or c

<400> 131

|             |             |             |            |            |            |      |
|-------------|-------------|-------------|------------|------------|------------|------|
| acctctcaga  | atctctctctc | agcaacctga  | gtcttcgccc | ttcctcagag | cgctcagtg  | 60   |
| acacccctgg  | atccttccag  | tcaccttccc  | tggaaattct | gctgtccagc | tgctccctgt | 120  |
| gccgtgcctg  | tnattcgctg  | gtgtatgatg  | aggaaatcat | ggctggctgg | gcacctgatg | 180  |
| actctaacct  | caacacaacc  | tgccccctct  | gogcctgccc | cttnttgccc | ctgctcagtg | 240  |
| tccagacctt  | tgattccccg  | cccagtgctc  | ccagccccaa | atctgctggg | gccagtgcca | 300  |
| gcaaagatgc  | tcctgtccct  | ggtggctcctg | gcctgtgtgt | cagtgaaccg | agctctgcct | 360  |
| tgctctggat  | gagccccagc  | tctgcaacgg  | gcacatgggg | ggagccctcc | ggcggttga  | 420  |
| gagtggggca  | tgggcatacc  | tgagccccct  | ggtgctgctg | aaggagctgg | agtcgctggg | 480  |
| agagaacgag  | ggcagtgagg  | tgctggcggt  | gcctgaactg | ccctctgccc | accccatcat | 540  |
| cttctggaac  | ctttgtgtgt  | atttccaacg  | gctacgnctg | ccagttatcc | taccaggcc  | 600  |
| ggtgctggcc  | tcctgtgatg  | ggcctctgma  | ctcccaggcc | ccatctccct | ggctaaccoc | 660  |
| tgatccagcc  | tctgttcagg  | tacggctgct  | gtgggatgta | ctgacccctg | acccaatag  | 720  |
| ctgcccacct  | ctctatgtgc  | tctggagggt  | ccacagccag | atccccagc  | gggtgggatg | 780  |
| gccaggccct  | gtacctgcat  | cccttagttt  | ggcactgttg | gagtcagtg  | tgcgccatgt | 840  |
| tggactcaat  | gaagtgcaca  | aggctgtggg  | gctcctgctg | gaaactctag | ggccccacc  | 900  |
| cactggcctg  | caactgcaga  | ggggaatcta  | ccgtgagata | ttattcctga | caatggctgc | 960  |
| tctgggcaag  | gaccacgtgg  | acatagtggc  | cttcgataag | aagtacaagt | ctgcctctaa | 1020 |
| caagctggcc  | agcagcatgg  | gcaaggagga  | gctgaggcac | cgcgggggcg | agatgcccac | 1080 |
| tcccaaggcc  | attgactgcc  | gaaaatgttt  | tggagcacct | ccagaatgct | agagacctta | 1140 |
| agcttccctc  | tccagcctag  | ggtggggaag  | tgagggaaga | gggattctag | agttaaactg | 1200 |
| cttccctggt  | gccttcacgg  | agttgggaac  | aggctgggaa | ggatgcccag | tcaaaggctc | 1260 |
| caagcgagga  | caacaggaag  | agggatccac  | tgttacaaaa | agtcctgatt | ccccatcac  | 1320 |
| caacctaccc  | agtttgttcg  | tgctgatgtt  | gggggagatc | tggggggagt | tggtacagct | 1380 |
| ctgttcttcc  | cttgtccctat | accgggaact  | cccctccagg | gtacccacag | atctgcattg | 1440 |
| ccctggctcat | tttagaagtt  | tttgttttaa  | aaaacaactg | gaaagatgca | gagctactga | 1500 |
| gcctttgccc  | tgaatgggag  | gtagggatgt  | cattctccac | caataatggt | ccctcttccc | 1560 |
| tgacgttgct  | gaaggagccc  | aaggctctcc  | atgcctttct | acctaagtgt | ttgtatttta | 1620 |



|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| ttttaaatta  | tttattctgg | agccacagcc | cccttgotta  | tgaggttctt  | atggagagtg  | 1680 |
| agaaaaggaa  | gggaaatagg | gcaccatggt | ccgggtgggtt | gtagttccctt | caaagtcagg  | 1740 |
| cactggggagc | tagaggagtc | tcaagctccc | cttaggaaga  | actgggtgcc  | cctccagtcc  | 1800 |
| taatttttct  | tgcctgcccc | gccttgggga | atgcctcacc  | cacccaggtc  | ctgaacctgtg | 1860 |
| caataaggat  | tgttccctgc | gaagttttgt | tggtatgtaa  | tatagtaaaa  | gctgcttctg  | 1920 |
| tctttttcaa  | aanaaaaaaa | aaaaaaaact |             |             |             | 1950 |

<210> 132  
 <211> 990  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (657)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (852)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (859)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (962)  
 <223> n equals a,t,g, or c

|             |             |
|-------------|-------------|
| <400> 132   |             |
| tggaagatatt | aaaatagggtt |
| tcatatctct  | cttgaataag  |
| 60          |             |
| cttgagtcct  | tattattatg  |
| aaattttcct  | tattatttct  |
| 120         |             |
| agcctgatct  | ttttcatatt  |
| agtatatgta  | catttagctgc |
| 180         |             |
| gaaatgtatt  | tttgcattgt  |
| ttgatcttaa  | actttttgtg  |
| 240         |             |
| cttttaagca  | tgatattttt  |
| aaccacaata  | gttgaaagac  |
| 300         |             |
| atattttacat | gtaatgtaat  |
| ttctgatgca  | tattacgtct  |
| 360         |             |
| ttatttttato | tagggcattt  |
| ttcagaaagc  | cttattttct  |
| 420         |             |
| aycattgtat  | tttccyctat  |
| tagttagkaa  | tacgktacyc  |
| 480         |             |
| tttcagaatt  | gcaatatgcc  |
| tccttaattt  | actagaggct  |
| 540         |             |
| ccacttactt  | gaaaattctg  |
| gaactttaga  | acattttattg |
| 600         |             |
| cttgtatttt  | tactactcct  |
| aaacattatt  | attgttttag  |
| 660         |             |
| ttattatctt  | atytcccaat  |
| tctttctgta  | tttttatgcc  |
| 720         |             |
| ttctatgtga  | tgaacctaat  |
| tcagtacttt  | tgtttttttaa |
| 780         |             |
| attaaatttt  | tatttttggc  |
| ttgctgaaaa  | aattgtgttt  |
| 840         |             |
| gcataatagaa | tnctaggtn   |
| acataatttt  | agtattttata |
| 900         |             |
| gcttctatca  | tttckgkga   |
| gaaatcaatt  | gtcagcccaa  |
| 960         |             |
| cnagaattttt | tcattgtctct |
| 990         |             |

<210> 133  
 <211> 1720  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 133

|            |             |             |             |            |             |      |
|------------|-------------|-------------|-------------|------------|-------------|------|
| gtctgataag | cgactgtggg  | tattccccta  | aagttttactt | cagcactaac | actagtgcctt | 60   |
| ccgctggagt | ttgcagtttt  | ccagctttat  | acaggatittt | cctttgactg | gaagagtcaa  | 120  |
| ggatatagag | actcaacagt  | gacattttatt | gtacaacatc  | aaggggaata | ggatactcat  | 180  |
| caaactggga | ttattcttat  | caaaacatgg  | tcttctttga  | ataagaaaaa | tacatagttg  | 240  |
| gttattatgg | acttaaaact  | gtgttraaatg | gatattctga  | taaaaatatt | gctgctctgt  | 300  |
| agagtgtgga | aaatctgaga  | atattagctt  | tactcatctt  | gagctttgag | gatgttctct  | 360  |
| gtacgccgat | ggtttcatac  | taactaaaaa  | agctggggtat | tgtaaaatct | catttataaa  | 420  |
| aactcagatg | agaagaaaat  | tttctttgat  | ggtgagactg  | ttgtcttagt | tcaggaaaatt | 480  |
| atttaataat | cctttgttac  | ctgtgaatga  | aggaactttg  | taattctgat | ttatcgtaaa  | 540  |
| acatgagcct | ttccagagtc  | agcttagaca  | ctgttgcgc   | aaatagccat | gctttgcctc  | 600  |
| atgccaaagg | ggcccagagg  | gagggcctag  | tcttctctcg  | ttgctgtaca | tatattgaaa  | 660  |
| tgcttttttt | ttttattttg  | catttggttat | ctataatgag  | ctttctgagc | cctgatatta  | 720  |
| tgtgagacaa | acaggagtta  | ttgatgttat  | acactccctt  | ccattcagga | ttttctgctt  | 780  |
| ggagggaaat | atgttgacct  | tagagaattg  | tgaatattgt  | tgaattcttc | gaatatatta  | 840  |
| ccatgtgaat | aatagagact  | gtgttgctct  | ctagtataag  | ctataattat | ttttgattca  | 900  |
| ttgaatttac | tagttataac  | tggagaaatt  | ttgttacctc  | tatcctggct | tgctgactg   | 960  |
| gctgtataat | agcagcagcc  | tcttttagag  | catcttaatg  | aaaacatgga | tgaagggaat  | 1020 |
| taatgatgat | atctgcagac  | tgcttagaaa  | atggcttttg  | ttcccagcgt | taacattttc  | 1080 |
| ttctcaatca | cattttcaatg | tttgtggaga  | gtggcagatt  | cacaccagaa | acactaggtg  | 1140 |
| ttcatatcca | tagcatggat  | gcagaataag  | cagttgggag  | agaagcttct | tcctacctgg  | 1200 |
| tactcctccc | attcacctca  | gccagcccc   | agacaggcgt  | tagcattcag | tgtggggcct  | 1260 |
| caggcagccc | tgaagcctgg  | ctgggtcatc  | agatgggggc  | agcctgtgac | gggcaccagc  | 1320 |
| ggcctgattc | caggggaagag | ttcctggagg  | gtgttggtcg  | tttttgttag | ctcagttttt  | 1380 |
| ttctgggctc | caccattcct  | aactccaggt  | agacaagata  | gatgtcacac | acaacaattt  | 1440 |
| taaagtattt | tgcttagtgc  | attttgttta  | tgattgcagt  | gtttgtttct | tatttaatag  | 1500 |
| gctttttact | tcattctatt  | aaattttagt  | gtttagaaga  | ggcgggtact | gtcactgtgt  | 1560 |
| aaaatatgta | atattttata  | tggtatacca  | tgtcatatat  | acttgcaata | tcagaccttg  | 1620 |
| cattcaatat | acaatgcaat  | tgactctttg  | cagacctgca  | tttttcagtg | aacaataaaa  | 1680 |
| agattgtctg | gcactocaaa  | aaaaaaaaaa  | aaaaaaaaaa  |            |             | 1720 |

&lt;210&gt; 134

&lt;211&gt; 705

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (349)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (409)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 134

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| ggcacgaggc | catctgggct | cattcagcag | gaaataatgg  | aaaaagctgc | aatatccagg  | 60  |
| tgtttactac | aatctggagg | caagatcttt | cctcagtatg  | tgctgatgtt | tgggttgctt  | 120 |
| gtggaatcac | agacactcct | agaggagaat | gctgttcaag  | gaacagaacg | tactcttgga  | 180 |
| ttaaatatag | caccttttat | taaccagttt | caggtacctc  | tacgtgtatt | tttggacctc  | 240 |
| tcctcattgc | cctgtatacc | tttaagcaag | ccagtggaac  | tcttaagact | agatttaaatg | 300 |
| actccgtatt | tgaacacctc | taacagagaa | gtaaagggtat | acgtrtgtna | aatctgggaa  | 360 |
| gacttgactg | ctattccatt | ttgggtatca | tatgtacctt  | gatgaagang | attaggttgg  | 420 |
| gatacttcaa | gtgaagcctc | ccactggaaa | caagctgcag  | ttgttttaga | taatcccatc  | 480 |
| caggttgaaa | tgggagagga | acttgtactc | agcattcagc  | atcacaaaag | caatgtcagc  | 540 |
| atcacagtaa | agcaatgaag | agcagttttc | caatgaaaac  | tgtgtaaata | gagcatcaac  | 600 |

aagtacaaaa ttcttgtctt aattagtggg ggtatataaa aattccttgt aatgggtcaaa  
tatttttttaa aattgacatt aataaagcat attttaaaag ttctt

660  
705

<210> 135  
<211> 323  
<212> DNA  
<213> Homo sapiens

<400> 135  
agcacacacc tcccttagtt gctcctaagg tcatgttcaa cattcgtgga gtgcattttc 60  
tgctcagga gctttccag acccggaatg tttggcgctc acagacyctg gcaaggatcg 120  
gtattgctgt tctcagttt tgcttgggga aatggaggst cagtgcggtt cagtgcggtg 180  
cccagagtca tggcattggc gggctggcca gkgmtccagg tctccagcac cctcgggcc 240  
cctcctcacc aggtcacatc atctcctgga ttagaatctg ctcacatagt ctgtcctgaa 300  
aggaaaaaaa aaaaaaaaaa aac 323

<210> 136  
<211> 582  
<212> DNA  
<213> Homo sapiens

<400> 136  
ggacggaatg gtgcaaccct cctwamtttt ctkgkgtgt tgacaacaga gggagggagg 60  
gaaaacattt ttygtgggag aatcctacyt ctgcagsgga gcccttaagc gatkgatttt 120  
gaatctkgac cctttacca ctaattttga aggaagatac cttggaaata tttggcattc 180  
agtgggttac tgaaacagca ttagtgaatt catctagaga actctttcat ttattcaggc 240  
aacaactgta caacttggaa accttgttac agtccagttg tgattttggg aargtatcaa 300  
ctctacactg caaagcagac aatattaggc agcagtggtt actattttct cattatgtta 360  
aagttttcat cttcaggtat ctgaaagtac agaagtctga gagtcatgtt cctgtccatc 420  
cctatgaggc tttggaggct cagcttccct cagtgttgat tgatgagctt catggattac 480  
tcttgatat tggacacct tctgaacttc ccagtgttaa tataggagca tttgtaaatt 540  
aaaaccagat taaggtttga ctggtttcat ttgattttta ag 582

<210> 137  
<211> 1021  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (248)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1004)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1014)  
<223> n equals a,t,g, or c

<400> 137  
ttcggcagag cccttgcgag ctcttgaata cctgckttct gtagcgctag ttcttttcaa 60

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| gatttgctta  | gtgtcatttc  | atttcggttt | cttttctcgc  | catgtttttc  | tgtcggaatt | 120  |
| acgggttcgtt | ttgggttctat | gtactctcta | aaatgtttatc | gttttttcatt | tgtctactaa | 180  |
| tttttcgtgca | tttgttacta  | ctgagtttct | taatatctga  | ctggcctcog  | cccacgggct | 240  |
| ctgcaganca  | taaaatactc  | aggctgatgg | tagtgagag   | actctccctc  | cttgatcagc | 300  |
| gcaaacggtt  | gtctgaggct  | tgagggatgg | agcaacattt  | tcttggtgt   | gtgaagcggg | 360  |
| cttgggattc  | cgcagagggt  | gcgccagagc | cccagcctcc  | acctattgtg  | agttcagaag | 420  |
| atcgtgggoc  | gtggcctctt  | cctttgtatc | cagtactagg  | agagtactca  | ctggacagct | 480  |
| gtgatttggg  | actgctttcc  | agcccttgct | ggcggctgcc  | cggagtctac  | tggcaaaacg | 540  |
| gactctctcc  | tggagtcag   | agcaccttgg | aaccaagtac  | agcgaagccc  | actgagttca | 600  |
| gttggtccggg | gacacagaag  | cagcaagarg | cacccttaga  | akargtgggg  | caggcagarg | 660  |
| aaaccgacag  | actcaggctc  | crgcagcttc | cctggagcag  | tcctctccat  | ccytgggaca | 720  |
| gacagcagga  | caccgaggct  | tgtgacagcg | ggtgcctttt  | ggaacgcgcg  | catcctcctg | 780  |
| ccctccagcc  | gtggcgccac  | ctcccgggtt | tctcagactg  | cctggagtgg  | attcttcgcg | 840  |
| ttggttttgc  | cgcgttctct  | gtactctggg | cgtgctgttc  | acggatctgt  | ggagctaagc | 900  |
| agccttagat  | agcagcagaa  | ggctttttgg | attctcctcc  | ttgaaaagat  | tctcagttac | 960  |
| caaacgtctc  | cacctagaaa  | ataaaaatac | attaagatgt  | tganaaaaaa  | aaanaaaaaa | 1020 |
| a           |             |            |             |             |            | 1021 |

<210> 138  
 <211> 1777  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (58)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (118)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (237)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (661)  
 <223> n equals a,t,g, or c

|             |             |
|-------------|-------------|
| <400> 138   |             |
| gattgttttac | gatcatatcc  |
| tttttttttgc | gagacagggt  |
| tagctcactg  | cagccttgaa  |
| tagctaggac  | tacaggaatg  |
| tgggatctca  | ctatgtttgcc |
| acttggctcc  | ccaaagtgtc  |
| tttttaagaa  | aaagatgcag  |
| ttatgaaatt  | gtgtgccctc  |
| attcctgcct  | catcatcttt  |
| tcacacacac  | ataagaccaa  |
| tgaatagtgt  | gcactgttga  |
| natgtgccta  | aggcaacagg  |
| tgcattgtga  | atagcaggtt  |
| ggcgatttgg  | gtaccggggcc |
| ctcactttgt  | ggctcagggt  |
| ctcctgggct  | caggcaatcc  |
| tgccatcatg  | cctggctaata |
| caagctgggt  | tcagattcct  |
| gggattacaa  | atgtgagcca  |
| tattaatatc  | aaattgtcca  |
| tgacaggcaa  | ccaaacacac  |
| gctccttaat  | gtcaaaggaa  |
| ttgaacatgc  | aaaaaaatag  |
| gtgtgcactg  | ttgaagtgtg  |
| agctctagat  | ttttggcyc   |
| gtatttctctc | ccctttttgc  |
| cccccccgac  | tttttaantt  |
| ggagtgact   | ggcacgttct  |
| tcctacctta  | gcctcctgag  |
| ttttaagttt  | tttgtanaga  |
| gtgtcgaagg  | gattctgcta  |
| cccatattct  |             |
| ggcatgggtg  |             |
| ttctttatta  |             |
| tctctctctc  |             |
| tctacgcttt  |             |
| gaaataaaac  |             |

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| aatactatct | acgctgagtt | atctattgoc | aactagcacc  | aattctccaa | atcaaagtgt  | 840  |
| gtgaggaaaa | cacactcgtg | caatccctct | taacagaaga  | tacaccaagt | aacctgtctg  | 900  |
| tctacttctg | ttaccagaa  | ataaaagaac | ttgaagggt   | gcttggtgg  | aggggtccgg  | 960  |
| gtgggagagc | atcctgccct | cagtcggaat | ccatggtgaa  | cagctggatg | tctgtggat   | 1020 |
| tccagtacag | gccgactgct | gagttgtaga | caagagacca  | gacatagggg | ataaaaaact  | 1080 |
| cctcgggctg | ctcctcttcc | acatatttga | atctcaattc  | tggaaatttc | ttcagtctgt  | 1140 |
| ctttgggcag | cgaacgcag  | ccttgcttaa | tgatttccag  | gacctgttcc | actgacagct  | 1200 |
| cagctcccag | cttgacgcaa | ccttgagcta | aagaaggaga  | tcaccagatc | aatattttgc  | 1260 |
| attatatcct | gaaatgaagg | atgagttcga | aattgttcaa  | agagatcgcg | ttgttaaagc  | 1320 |
| agggcgata  | ccaagtttgg | gtgtgtgtga | aggggaatttg | tcaggcagga | gttgatgac   | 1380 |
| tctaactca  | ttcgaatcac | ttcttcaatg | acatttaggt  | cttgtgcata | atctggtaga  | 1440 |
| ggaacatcat | tagaactcag | cgaacctctc | aaggactgtg  | tggcttgttc | cagaactttg  | 1500 |
| ttgtgttttt | tagacagcaa | agaaaataaa | ctgatgatcc  | tctgggcagc | atactgatgg  | 1560 |
| agagaacgaa | actgtgccga | catatttgct | aaagctgcc   | aacaatttgt | gtgaagggtac | 1620 |
| ttgtctcgtg | tctagtcat  | gttgtattga | atggttctta  | ttaccaccag | gatcaggaga  | 1680 |
| ctccccaagg | agatttcagt | taaaactcgt | tctgaatacc  | aagtaatat  | ttttagtatc  | 1740 |
| acttcatgaa | tggatctgtt | gaagccatca | tcttcog     |            |             | 1777 |

&lt;210&gt; 139

&lt;211&gt; 643

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| tttttttttt  | tttttttttt  | tttttttttt | tttttttggg  | aatgagaaaa | taactttatt  | 60  |
| ttcattgtgg  | ggagcgggccc | gatgtccagc | ctcagaactt  | ctggaactgc | ttcttgggtgc | 120 |
| cggcagcctt  | ggtgaccttg  | agcacgttga | agcgcactgt  | cttgctcaga | ggccggcact  | 180 |
| cgcccaactgt | gacgatgtca  | ccgatctgga | cgccoctgaa  | gcagggggac | aggtgtacag  | 240 |
| acatgtttct  | gtggcgcttc  | tcgaaagcgt | tgtaacttgcg | gatgtagtgc | agatagtctc  | 300 |
| ggcggatgac  | aatggtcctc  | tgcattctca | tcttgggtca  | ccacgccaga | gaggatccgc  | 360 |
| cctcgaatgg  | acacattacc  | agtgaagggg | catttcttgt  | caatgtaggt | gcccccaat   | 420 |
| agcctccttg  | gggtgtcttt  | gaagcccaga | ccgatgttct  | tgttagtaac | ccgcgggagc  | 480 |
| ttctccttgc  | cagtttctcc  | cagcaggacc | ctcttcttgt  | tttgaaagat | ggtcggctgc  | 540 |
| ttttggtagg  | cacgctcagt  | ctgaatgtcc | gccatcttct  | cgtgccgmay | tcctgcagcc  | 600 |
| cgggggatcc  | actagtctca  | gagcggccgc | accgcggtgg  | agc        |             | 643 |

&lt;210&gt; 140

&lt;211&gt; 1220

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (404)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 140

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tttttttttt | ttgagatgga | atcttgcctc | tgttgtccag | gctggagtgc | aatggcacga | 60  |
| tcttggetca | ctgcaacctc | tgctccttag | cttcaaggga | ttctcctgcc | tcagcctccc | 120 |
| gagtagctgg | gattacacgt | gcccaccacc | acgcccagct | aatattkgta | tttttagtag | 180 |
| agacgggggt | tcaccagggt | ggccaggcta | gtcttggaac | tcctgacytc | gtgatccacc | 240 |
| tgcytcggcy | tcacaaagtg | ctgggattac | aggtgtgagc | cgtcctgtgt | tttttgtttt | 300 |
| tgttctgttt | taaaagatgg | artttcactc | ttatgcctcc | ggctggaktg | caatggcacr | 360 |
| atctcggctc | accgcaatct | ccacctcctg | ggctcaagca | attnttctgc | cccagcctcc | 420 |
| caaagtgtct | gaattacagg | tgcccgcac  | catgcccaac | caatttctcg | taytcytagt | 480 |
| agaggtgggg | tttcacaacg | tkggccaggc | tggtytcaaa | ctcaaaytoc | tgacytcagg | 540 |

|             |             |              |            |            |            |      |
|-------------|-------------|--------------|------------|------------|------------|------|
| tgatctgccc  | actttggcyt  | cccgaaatgc   | tgagactaga | ggcgcgagcc | accacgcctg | 600  |
| gcctacaaac  | acattcttgt  | ttgggttttt   | atataaaata | tgagcacaaa | aatactttcc | 660  |
| ctaaatacag  | cctctggctt  | tgcctaacc    | ttggcacaca | accaagtacc | tcttccattc | 720  |
| tcagatacgt  | gaggggagtg  | tatagagggt   | tagagtacat | acgtttcttc | tccaactctt | 780  |
| cgctcgtctag | aagaagacta  | accacctctt   | tgggtttcaa | ggtatctggt | ttgaagttcc | 840  |
| cacctgaaat  | caccatccgc  | tgaatctcac   | tcttctcctt | ggctctctgc | agaatgcgtt | 900  |
| cttcaatggg  | gccttttacag | atgagccggg   | acacagtaac | ctgctttgtc | tgccctaagc | 960  |
| gggtgggccct | gtccatggcc  | tgcctgggtcca | cagtgggggt | ccagtcgcta | tcatagaaaa | 1020 |
| tgcactgtgt  | ctkcagcagt  | gagattgata   | cccagtcctc | cagctcgtgt | gcttaacagg | 1080 |
| aacacaaaaga | tgctattcct  | gttctgaaaa   | tcagcaacca | tgtctcgcct | ctccgagatc | 1140 |
| ttggatgagc  | catcaagcct  | yatgtaggta   | tgcttctgt  | aaaccatgta | ttcctccagt | 1200 |
| aggtctatca  | tcctcgtgcc  |              |            |            |            | 1220 |

&lt;210&gt; 141

&lt;211&gt; 721

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (623)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (626)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (638)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 141

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| aattcggcac | gagccagggt | agccggaagg  | gcagctctcc  | aggccctgcc | caccccacag | 60  |
| ggggctcctt | atgcacagcg | gggcgtctcc  | ttgtggccat  | agaaacggaa | ctggctcttt | 120 |
| tcaacagtgc | tgcaagagga | tggttattta  | acgttgcccc  | ccaaggagga | aaggcacaga | 180 |
| cyttcctccc | tcctggaaca | tccaagggca  | ctggatcctc  | tgtgtccctc | tgagatgggg | 240 |
| tgccactcca | gcaagagcac | cacgggtggca | gctgagtcct  | agaagcttga | agaagagygc | 300 |
| gaggaagag  | agccagggtc | ggagaccggc  | acccaggcag  | cagactgcaa | ggatgccccg | 360 |
| ctgaaggatg | gaacccttga | gccaaagagc  | tgaaatgcct  | ctctccagag | tcggaccctc | 420 |
| acctcyttcc | tggaactgcc | tttggcccca  | gaaccatgag  | acaatcccca | ccctgagaag | 480 |
| ctccgatcac | tgggaggaga | gagaaagcct  | ccagctttgg  | gattcagggt | tcagaagtct | 540 |
| ttagcagcct | ttgctcattg | gagaggtggg  | gaaaggataa  | agtctctata | aggaaatccc | 600 |
| taattttccc | cagctcctcc | ccnccngaag  | aaggaacnaa  | agaaagtctc | ttccacacgt | 660 |
| tttgttgga  | acttttccct | tgccaacttt  | ccttggtattg | ccagaacaaa | gcctccaga  | 720 |
| a          |            |             |             |            |            | 721 |

&lt;210&gt; 142

&lt;211&gt; 1468

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (901)

<223> n equals a,t,g, or c

<400> 142

|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| atgaattaat | gtttataaat  | gactgtactg | aattttaaac  | cgtacagttt  | catttgcatt | 60   |
| ttgacattac | tttattatac  | attttgcatt | taaaaggctg  | caccagttgg  | cttttcttct | 120  |
| gttttattct | caaaatatag  | agattctgtg | atttatttgc  | cctgtttatg  | gattaaaaag | 180  |
| aaaattctaa | tataaagcat  | ttcaatagga | tgcataggta  | tattacgttt  | tttaaatgct | 240  |
| ttagatctgt | gattcttgac  | ttactattta | ttttatcccc  | tttaagtcag  | ggatgcttta | 300  |
| ttctatttta | aagcacttat  | gagttacatg | ttgtaatcaa  | gtttgcacaa  | tatatttatc | 360  |
| tatatgagga | acccataaat  | gaatagctaa | ttttttaaact | gccattaaaa  | tgcatgaaat | 420  |
| kcttatttaa | accttactat  | actatttctt | caaggcaagt  | aaattgacca  | tgrgraaagr | 480  |
| acacagttat | taaacactgt  | tgacaggaaa | attctccttg  | ataacatagg  | acaattaatg | 540  |
| gaaaaaaaaa | ttctcattat  | ttgcaaagaa | tgaacaagtt  | aatgaacaaa  | caaactagat | 600  |
| ttggtatggt | ttcagctttt  | gtatcatggt | taattgttta  | atctgggtga  | aaaactgcag | 660  |
| ttgagaaatc | agatagcaat  | atagacattc | acagcagctc  | tgtggatacc  | atgtaattgt | 720  |
| caggtaattt | cagaatggtg  | aaaattattc | agtgcagccc  | tcatagtatc  | atacttgaag | 780  |
| aaattgatta | cagttccact  | aaattgttga | agataaatta  | ttttttaaagg | ttatgaaaac | 840  |
| taagttatat | taattcatat  | gtttgatgtt | taaatccac   | ctcttcaagc  | tatccaattt | 900  |
| nctgactttg | aaaataacca  | tgagagatgc | cacattttct  | tctgggaaac  | taccactcaa | 960  |
| agaataattg | ttaaaaatta  | agcttttagg | tattagaagc  | tgttataaag  | tataaaatta | 1020 |
| agatataagc | agatcacatg  | taaatcattc | ctaaagcaca  | agaaaagaat  | gtgccttgat | 1080 |
| gtacatatat | tactaagttg  | cctctcccag | tttactttta  | aaatggcttt  | aaggataaag | 1140 |
| aataaatgtg | atagctgtgc  | atgcattata | tatttgcatt  | tgcaaatttc  | ccattgtttt | 1200 |
| aacagctgtg | tggctgactt  | tcaattttta | gacgtgaatt  | gacatacagc  | ccataacttt | 1260 |
| ataatggctg | ctcattttatc | ttatctttca | gttagtgga   | aaacattttc  | acctgactaa | 1320 |
| aatttggaat | tgtgtctttt  | atgttccatc | ctctgttgtt  | actagattta  | gtttaaaaat | 1380 |
| tgtgtatgac | cattaatgta  | tgtcataaac | atgtaaataa  | aagatgttga  | atcttgttga | 1440 |
| aaagcawraa | aaaaaaaaaa  | aaactcga   |             |             |            | 1468 |

<210> 143

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (284)

<223> n equals a,t,g, or c

<400> 143

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| tgaatttttt | gccaaactta  | gtaactctgt | taaatatttg | gaggatttaa | agaacatccc | 60  |
| agtttgaatt | cattttcaaac | tttttaaact | ttttgtact  | atgtttggtt | ttatttttct | 120 |
| tctgttaate | ttttgtattc  | rcctatgctc | tcgtacattg | agtactttta | ttocaaaact | 180 |
| agtgggtttt | ctctactgga  | aattttcaat | aaacctgtca | ttattgctta | ctttgattaa | 240 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaccccnag | ggggggggcg | ggtncccaat | cccccccaaa | 300 |

<210> 144

<211> 2243

<212> DNA

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (929)  
 <223> n equals a,t,g, or c

<400> 144

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tgccctccctt | cctgcagatt  | gtggacagta  | gttcctcagc  | ctgcaccctg  | gattcccttct | 60   |
| tcccccttct  | agctccatgg  | gactcgcccc  | aagactgtgg  | cttcaaggac  | caccagcccc  | 120  |
| ttactcttca  | agccctgact  | gtggagttgg  | tagatgcctc  | tgatccctcag | tattctctct  | 180  |
| ggcaatgttc  | cacggcttct  | ccttcctggg  | agctggctcc  | ataacttgat  | tttccccaaa  | 240  |
| cgtgttgcaa  | tccctgctgc  | cccttagcca  | cccagggtct  | tgtgtgggta  | tgagtgtaga  | 300  |
| ggatgggggt  | atgccaggcc  | tgggccgtcc  | caggcaggcc  | cgctggaccc  | tgatgctact  | 360  |
| cctatccact  | gccatgtaeg  | gtgcccagtc  | cccattgctg  | gcaactgtgcc | atgtggacgg  | 420  |
| ccgagtggcc  | ttycggccct  | cctcagccgt  | gctgctgact  | gagctgacca  | agctactgtt  | 480  |
| atgcgccttc  | tcccttctgg  | taggctggca  | agcatggccc  | caggggcccc  | cacctgggcy  | 540  |
| ccaggctgct  | cccttcgcac  | tatcagccct  | gctctatggc  | gctaacaaca  | acctgggtgat | 600  |
| ctatcttcag  | cgttacatgg  | accccagcac  | ctaccagggtg | ctgagttaatc | tcaagattgg  | 660  |
| aagcacagct  | gtgctctact  | gcctctgcct  | ccggcaccgc  | ctctctgtgc  | gtcagggggtt | 720  |
| agcgctgctg  | ctgctgatgg  | ctgcccggagc | ctgctatgca  | gcaggggggcc | ttcaagttcc  | 780  |
| cgggaacacc  | cttcccagtc  | cccctccagc  | agctgctgcc  | agccccatgc  | ccctgcatat  | 840  |
| cactccgcta  | ggcctgctgc  | tcctcattct  | gtactgcctc  | atctcaggct  | tgtcgtcagt  | 900  |
| gtacacagag  | ctgctcatga  | agcgacagng  | gctgcccctg  | gcacttcaga  | acctcttctt  | 960  |
| ctacactttt  | gggtgtgctt  | tgaatctagg  | tctgcatgct  | ggcggcgggt  | ctggcccagg  | 1020 |
| scctctggaa  | ggtttctcag  | gatgggcagc  | actcggtgtg  | ctgagccagg  | cactaaatgg  | 1080 |
| actgctcatg  | tctgctgtca  | tgaagcatgg  | cagcagcatc  | acacgcctct  | ttgtgtgtgc  | 1140 |
| ctgctcgctg  | gtggtcaacg  | ccgtgctctc  | agcagtcctg  | ctacggctgc  | agctcacagc  | 1200 |
| cgcccttctt  | ctggccacat  | tgctcatggg  | cctggccatg  | cgctgtact   | atggcagccg  | 1260 |
| ctagtccctg  | acaacttcca  | ccctgattec  | ggaccctgta  | gattggggcg  | caccaccaga  | 1320 |
| tccccctccc  | aggccttctt  | ccctctccca  | tcagcagccc  | tgtaacaagt  | gccttgtgag  | 1380 |
| aaaagctgga  | gaagtgaggg  | cagccaggtt  | attctctgga  | ggttgggtgga | tgaaggggta  | 1440 |
| ccccaggag   | atgtgaagtg  | tgggtttggg  | taaggaaatg  | cttaccatcc  | ccccccccca  | 1500 |
| accaagtctt  | tccagactaa  | agaatcaagg  | taacatcaat  | acctaggcct  | gagaaataac  | 1560 |
| cccatccttg  | ttgggcagct  | ccctgctttg  | tcctgcatga  | acagagttga  | tgaaagtggg  | 1620 |
| gtgtgggcaa  | caagtggctt  | tccttgccca  | cttttagtcac | ccagcagagc  | cactggagct  | 1680 |
| ggctagtcca  | gccagccat   | ggtgcatgac  | tcctccataa  | gggatccctc  | cccttccact  | 1740 |
| ttcatgcaag  | aaggccagct  | tgccacagat  | tataacaacca | ttaccctaac  | cactctgaca  | 1800 |
| gtctcctcca  | gttcagcaa   | tgccatagaga | catgctccct  | gccctctcca  | cagtgtgct   | 1860 |
| ccccacacct  | agcctttgtt  | ctggaaaccc  | cagagagggc  | tgggcttgac  | tcattctcagg | 1920 |
| gaatgtagcc  | cctgggcccc  | ggcttaagcc  | gacactcctg  | acctctctgt  | tcaccttgag  | 1980 |
| ggctgtcttg  | aagcccgcta  | cccactctga  | ggctcctagg  | aggaccatg   | cttcccactc  | 2040 |
| tggggcctgc  | ccttgccctag | cagtctccca  | gctcccaaca  | gcctggggaa  | gctctgcaca  | 2100 |
| gagtgcctg   | agaccaggta  | caggaaacct  | gtagctcaat  | cagtgtctct  | wtaactgcat  | 2160 |
| aagcaataag  | atcttaataa  | agtctctctag | gctgtagggt  | ggttccctaca | accacagcca  | 2220 |
| aaaaaaaaaa  | aaaaaaaactc | gag         |             |             |             | 2243 |

<210> 145  
 <211> 1082  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (265)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE



<222> (354)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1064)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1081)  
 <223> n equals a,t,g, or c

<400> 145  
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 aaccatctcc cacaattaat tcttgactat ataaatttat ggtttgataa tattatcaat 180  
 ttgtaatcaa ttgagatttc tttagtgcct gcttttctgt gactcaactg cccagacacc 240  
 tcattgtact tgaaaactgg aacancttgg gaatgccatg gggtttgata atctgccagg 300  
 gacatgaaga ggctcagctt cctgggacca tgactttggc tcagctgac ctgnacatgg 360  
 gagaacaacc acatttttct ttgtgtgtgc ttctagcagc tgctcgggag gaccktgacc 420  
 caayagtgtt cccatgctgt tctttgtgaa atgctctcgg ctatgtagca gcttttgatt 480  
 ccctgcatac cctaggctgc tgccctatc ctgtcccttg tttataacat tgagaggttt 540  
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 aaatcttttg gtcacaataa agagtctcca aattagagac tgcagttag ttctggatgg 780  
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 ng 1082

<210> 146  
 <211> 4313  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1126)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (4015)  
 <223> n equals a,t,g, or c

<400> 146  
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 ctgaggtcgc gctccccgc cgccgcagcc cactgttgac ccggcccgta ctgcggcccc 180  
 gtggccacca tgtccctgca cggcaaacgg aaggagatct acaagratga agcgccctgg 240  
 acagctctac cgatgaactg gagtgtgcgg ccgataagc gctttcgctt ggcgctgggc 300  
 agcttcgtgg aggagtacaa caacaaggtt cagcttgctg gtttagatga ggagagttca 360  
 gagtttatct gcagaaacac ctttgaccac ccatacccca ccacaaagct catgtggatc 420

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| cctgacacaa  | aaggcgtcta  | tccagaccta  | ctggcaacaa  | gcggtgacta  | tctccgtgtg  | 480  |
| tggagggttg  | gtgaaacaga  | gaccaggctg  | gagtgtttgc  | taaacaataa  | taagaactct  | 540  |
| gattttctgtg | ctcccttgac  | ctcctttgac  | tggaaatgagg | tggatcctta  | tctcttaggt  | 600  |
| acctcaagca  | ttgatacgac  | atgcaccatc  | tggtgggtgg  | agacagggca  | ggtgttaggg  | 660  |
| cgagtgaatc  | togtgtctgg  | ccacgtgaag  | acccagctga  | tgcgccatga  | caaagaggtc  | 720  |
| tatgatattg  | catttagccg  | ggcggggggg  | ggcagggaca  | tgtttgcctc  | tgtgggtgct  | 780  |
| gatggctcgg  | tgcggatgtt  | tgacctccgc  | catctagaac  | acagcaccat  | catttacgaa  | 840  |
| gaccacagc   | atcaccctact | gcttcgcctc  | tgcctggaaca | agcaggacct  | taactacctg  | 900  |
| gccaccatgg  | ccatggatgg  | aatggaggtg  | gtgattctag  | atgtccgggt  | tctgcacac   | 960  |
| ctgtsgccag  | gttaaacaac  | catcgagcat  | gtgtcaatgg  | cattgcttgg  | gccccacatt  | 1020 |
| catcctgcc   | catctgcact  | gcagcggatg  | accaccaggc  | tctcatctgg  | gacatccagc  | 1080 |
| aaatgccccg  | agccattgag  | gacctatcc   | tggcctacac  | agctgnaagg  | wgagatcaac  | 1140 |
| aatgtgcagt  | gggcatcaac  | tcagcccgaa  | ytgtogccat  | ctgctacaac  | aactgcctgg  | 1200 |
| agatactcag  | agtgtagtgt  | tgggtggcgt  | gtgcccacga  | ggcaggggct  | tttgtatttc  | 1260 |
| ctgcctctgc  | cccaccccca  | aagtaagaag  | aaacatgttt  | ccagtggcca  | gtatgtcttt  | 1320 |
| cattgctttg  | caccactgtt  | taccagaagc  | tgctctagga  | gttcttggtc  | agtcacccca  | 1380 |
| tgcctctctg  | tggcagactc  | agtgtctgtg  | ggcgccctct  | cagcccaggg  | ctgagtttta  | 1440 |
| agattttctc  | tcccttctct  | ttctcctttg  | gttctctaat  | taaaaaatgt  | gtgtatatatt | 1500 |
| gtttgtcagg  | cgttgtgttg  | aggagcagtt  | cacgcactgg  | ctgtgtctat  | tctctgccc   | 1560 |
| aggtgtctct  | gtttgtctgc  | caakgywkkt  | tttcatgtct  | ogtccatgtc  | catgttcgtg  | 1620 |
| ttagcactwa  | cgtgggaaca  | aataccaatt  | tgtcttttct  | cctagtatca  | gtgtgtttaa  | 1680 |
| caaattttaa  | ctttgtatat  | ttgttatcta  | tcaggctaata | ttttttatga  | aaagaatttt  | 1740 |
| actctcctgc  | ttcatttctt  | tgtcttatag  | tctccctctt  | ttgcaccttc  | ttctcttccc  | 1800 |
| tcagtgcctg  | gagctggtac  | tgggccccctg | gccccatgag  | cagtttgctc  | tcttgagtca  | 1860 |
| ctgcctgtgt  | agtacatacc  | tgaccgggag  | tccaaaccac  | cttgggtgctc | tgaagtccac  | 1920 |
| tgactcatca  | cacctttctt  | agcctggctc  | ctctcaaggg  | cattctgggc  | ttgtaaacag  | 1980 |
| acataggaag  | cctctgttta  | cctgaagca   | ccactgtcca  | gccccattgg  | tcccactggc  | 2040 |
| agcatggtag  | agctgagaga  | aacaggctct  | cagggtacct  | gacttgaggg  | gaatcgtttc  | 2100 |
| atgaagctga  | acttcaagca  | tatttccagt  | acattctttc  | agagtctgtt  | tttccatcca  | 2160 |
| aatataagcc  | ccaggccatt  | ccacttagtg  | tcttttcaat  | gataggcaag  | aatgatattc  | 2220 |
| gagttgaact  | tgggtgcttc  | tggtgtttga  | gtttactgtg  | cctgggtggt  | tattgggcat  | 2280 |
| tctttggatt  | gagtgctctg  | aggtgagaga  | gtcttcccga  | ggcatcctgt  | ctgtgcttcc  | 2340 |
| aaccttgaac  | aagaccttac  | atgagagatg  | gactgatgga  | ctgcggcaat  | cctgggctgt  | 2400 |
| caagtggata  | gatagttaaa  | aagcattata  | ctgtgggtaa  | tgaaaaggga  | ggaaaaaaa   | 2460 |
| agaaggaaaa  | ggaattatag  | acccccaggg  | tcagccagtt  | aagagctcta  | cccacacctg  | 2520 |
| tcaacccctc  | tctccccag   | tttaggttct  | gagcagttat  | ggactctgtg  | cctgcagttg  | 2580 |
| tcttttgact  | tgcaggccgc  | agtgtcttct  | tgttatgtga  | atgagttcca  | tggaggggca  | 2640 |
| tatgtgtgat  | cccaccgtta  | gatgagccct  | tggggcaggc  | agtttgggat  | gtgctcttgg  | 2700 |
| gggaaagtgt  | gctgtttcct  | tgcgctctgc  | tccatcccga  | agtttttaag  | tccctctgaa  | 2760 |
| ttgtctcatct | gagattagta  | gagtagcagg  | cctgaaggat  | gatggttttg  | tctcttttgg  | 2820 |
| ttctcacctg  | cttgagaagt  | aaaacagtaa  | ctttgttctt  | ctgggcccct  | aagctttttt  | 2880 |
| ggttaagtct  | tcccttttcag | aagtagatgt  | cattatatgc  | caaaaagtcta | gctcttttgc  | 2940 |
| ttaccataca  | gggacctgtc  | ccaaagaaaa  | aggctctttt  | tttagccagc  | atatttcccc  | 3000 |
| ttctacccct  | ttacttttgt  | gttctgattt  | taggactctg  | gctggccatg  | tgtctgtgtg  | 3060 |
| tgctctctct  | gactttgcca  | ctggatttgc  | actgcctcgt  | ttggagatac  | aaagcgagca  | 3120 |
| gttcttgggt  | agaacccctc  | tctgcttttc  | attgtgtttg  | ataatgggta  | ctgggtccct  | 3180 |
| ctctcaaggg  | tagcaaggcc  | aagctgatgg  | ctgcttgttt  | aggaggccat  | cagttccctc  | 3240 |
| ctgtggagaa  | gggtctgaaa  | tggaaagtcag | tggtagaagg  | ggctgggtctg | ctgggcaggg  | 3300 |
| cttacatcca  | ctgagttcta  | agattccttc  | cctgatctgc  | acctacgcct  | ggtctgtatg  | 3360 |
| gtggaatttg  | tcagctggaa  | ctcagaaaca  | acaacttgaa  | aaaaaaataa  | taattagaac  | 3420 |
| atattttgat  | aagatagcta  | tttactctgg  | aaaccaacaa  | cttttgagat  | ttcccttgcc  | 3480 |
| ctgtggacgc  | ccagctcctg  | tcatccttcc  | ttaggtcctg  | cagtacagtc  | ttcccttgaa  | 3540 |
| tgcacccggg  | gacccagggg  | gactccaccc  | ccctaagcaa  | gcacacacat  | actcacagtt  | 3600 |
| gatgagttgc  | tgggtctttga | gtcccagctc  | tcttaccctc  | cccttactcc  | accagccoga  | 3660 |
| cgacccatga  | ctgaggaggg  | gatttctaca  | gtctcaggat  | ttagaaagtc  | tgtaagccat  | 3720 |
| ccatgctcca  | gaaagcacccg | atctgttgta  | gttgcaaaaa  | caactctgta  | atttgttgag  | 3780 |
| gttctcaaac  | tgacagccag  | cgagactggg  | tgggaggccc  | tgatctgttt  | ctccctgact  | 3840 |
| gcgggaggag  | cagccactag  | gacttttagca | ggaagcccac  | atggaggctc  | cgccaggctg  | 3900 |

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| tggcccagct | ggtgatggcc | cttttgcctc | tggcagcctg | aggcacagct  | gcctgtattg | 3960 |
| tcctcatctg | ttctgactga | aggatggagg | tgctgaataa | attaggcctc  | aggcntctac | 4020 |
| caccagagag | ctggagaatg | ggtccacgtc | attcaaggac | ctgaatTTTT  | tatgctcagg | 4080 |
| agcattggaa | tcctcttctt | ccagggagga | attagcctgc | aagggttagga | cttgaagagg | 4140 |
| gaaggatatt | aataactggg | cgaggatggg | tgtggtggct | cacacctgta  | atcccagcat | 4200 |
| tttgggaggc | tgaggatggc | agatcccaag | gtcagaagat | cgagaccatc  | ctggctaaca | 4260 |
| tggtgaaacc | ccatctctac | taaaaatata | aaattaaatt | ggccgggcgt  | gaa        | 4313 |

&lt;210&gt; 147

&lt;211&gt; 1183

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1053)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 147

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| ggcagagcct  | caagctgact  | tggattatgt | ggtccctcaa | atctaccgac  | acatgcagga  | 60   |
| ggagttccgg  | ggccgggttag | agaggaccaa | atctcagggt | cccctgactg  | tggtgctta   | 120  |
| tcakwygggg  | agtgtctact  | cagctgctat | ggtcacagcc | ctcaccctgt  | tggecttccc  | 180  |
| actttctgtg  | ttgcatgcgg  | agcgcatcag | ccttgtgttc | ctgcttctgt  | ttctgcagag  | 240  |
| cttccttctc  | ctacatctgc  | ttgctgctgg | gatacccgtc | accaccctgt  | gtcctttttac | 300  |
| tgtgccatgg  | caggcagtct  | cggcttgggc | cctcatggcc | acacagacct  | tctactccac  | 360  |
| aggccaccag  | cctgtctttc  | cagccatcca | ttggcatgca | gccttcgtgg  | gattcccaga  | 420  |
| gggtcatggc  | tcctgtactt  | ggctgcctgc | tttgctagtg | ggagccaaca  | cctttgcctc  | 480  |
| ccacctctct  | tttgagtag   | ggtgcccact | gctcctgctc | tgccctttcc  | tgtgtgagag  | 540  |
| tcaagggctg  | cggaagagac  | agcagccccc | agggaatgaa | gctgatgcca  | gagtcagacc  | 600  |
| cgaggaggaa  | gaggagccac  | tgatggagat | gcggctccgg | gatgcgcctc  | agcacttcta  | 660  |
| tgcagcactg  | ctgcagctgg  | gcctcaagta | cctctttatc | cttggtattc  | agattctggc  | 720  |
| ctgtgccttg  | gcagcctcca  | tccttcgcag | gcctctcatg | gtctggaaaag | tgtttgcccc  | 780  |
| taagtccata  | tttgaggctg  | tgggcttcat | tgtgagcagc | gtgggacttc  | tcctgggcat  | 840  |
| agctttgggtg | atgagagtgg  | atggtgctgt | gagctcctgg | ttcaggcagc  | tatttctggc  | 900  |
| ccagcagagg  | tagcctagtc  | tgtgattact | ggcacttggc | tacagagagt  | gctggagaac  | 960  |
| agtgtagcct  | ggcctgtaca  | ggtactggat | gatctgcaag | acaggctcag  | ccatactctc  | 1020 |
| actatcatgc  | agccaggggc  | cgctgacatc | tangacttca | ttattcwatr  | attcaggacc  | 1080 |
| acagtggagt  | atgatcccta  | actcctgatt | tggatgcac  | tgaggggaaa  | gggggkcggt  | 1140 |
| stccgaagtg  | gaataaaaata | ggcgggcgtg | gtgacttgca | cct         |             | 1183 |

&lt;210&gt; 148

&lt;211&gt; 734

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

|            |            |             |            |             |             |     |
|------------|------------|-------------|------------|-------------|-------------|-----|
| gaattcggca | gagtgaagca | ttagaatgat  | tccaacactg | ctcttctgca  | ccatgagacc  | 60  |
| aaccagggc  | aagatcccat | cccatcacat  | cagcctacct | ccctcctggc  | tgctggccak  | 120 |
| gatgtcgcca | gcattacctt | ccactgcctt  | tctccctggg | aagcagcaca  | gctgagactg  | 180 |
| ggcaccaggc | cacctctgtt | gggacccaca  | ggaaagagtg | tggcagcaac  | tgcmgtggctg | 240 |
| acctttctat | ctctcttagg | ctcaggtaact | gctcctccat | gcccattggyt | gggcccgtggg | 300 |
| gagaagaagc | tctcatacgc | cttcccactc  | cctctggttt | ataggacttc  | actccctagc  | 360 |
| caacaggaga | ggaggcctcc | tgggggtttcc | ccrrggcagt | agggtcaaag  | acctcatcac  | 420 |
| agtcttccct | cctcttcaag | cgtttcatgt  | tgaacacagc | tctctccrct  | cccttgtgat  | 480 |
| ttctgagggt | caccactgcc | arccctcaggc | aacatagaga | gcctcctggt  | ctttctatgc  | 540 |
| ttggtctgac | tgagcctaaa | gttgagaaaa  | tgggtgccaa | ggccagtggc  | agtgtcttgg  | 600 |

```

ggccccctttg gctctccctc actctctgag gctccagctg gtccctgggac atgcagccag 660
gactgtgagc ctgggcasgt ccaaggcctg caccttcaag aagtgggaata aatgtggcct 720
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<210> 149
<211> 1405
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (604)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (842)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1079)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1334)
<223> n equals a,t,g, or c

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<400> 149
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aagsaaacca gagggaggta gacagggaga tcagggtccct tctactctgg ttccctgctct 180
gtgaaattgt ctgaggctgg ctgtgtccag arggtccctg gttctctcar ggatgccaaa 240
tctacaagaa tctctcctct tccagttcct ataacctctc cttcccttttg tctcttttaga 300
ccttgaggta gtagcagcca ggttctttct atctctgggt tagtgcatta tctctgggtg 360
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tttagcagag aaggagactg aagctcaggg aggttaagtg tctttctcta ggtcgtattg 540
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taatatcttt ccmvggaaag awaatgatat tccmaactgg gagtgtcccw agcaratctg 840
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gtttacaaaa ttgagataag gccctattct cccccacc caccatcca tattgttttg 960
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cctcccttaa tgagggtgtg gatgtacaag agtygtgagg tggcaaagga tgggctcctg 1140
aggaaacact taggaaactg ggctttctgc cattaaaaga gacaaacctt tgtggtgacc 1200
taattaaagt ttttaaaatt caatttgga agtttagcaag ctagctcctk tccaggwaaa 1260
ataaggagtc agtgcattgac ctaaccgggt cggggtgct tgccattcca aacaactgca 1320
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<210> 150

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<211> 2890  
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<220>  
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 <223> n equals a,t,g, or c

<400> 150

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| ttatatgcta  | cagctacagt  | aatttcttct | ccaagcacag  | agganccttc  | ccaggatcag | 60   |
| ggggatcgcg  | cgctcacttga | tgctgctgac | agtggctcgtg | ggagctggac  | gtcatgctoa | 120  |
| agtggctccc  | atgataatat  | acagacgac  | cagcaccaga  | gaagctggga  | gactcttcca | 180  |
| ttcggggcata | ctcactttga  | ttattcaggg | gatcctgcag  | gtttatgggc  | atcaagcagc | 240  |
| catacgggacc | aaattatggt  | ttctgatcat | agcacaaaagt | ataacaggca  | aaatcaaagt | 300  |
| agagagagcc  | ttgaacaagc  | ccagtcccga | gcaagctggg  | cgtcttccac  | aggttactgg | 360  |
| ggagaagact  | cagaagggtga | cacaggcaca | ataaagcgga  | ggggtggaaa  | ggatgtttcc | 420  |
| attgaagccg  | aaagcagtag  | cctaacgtct | gtgactacgg  | aagaaaccaa  | gcctgtcccc | 480  |
| atgcctgccc  | acatagctgt  | ggcatcaagt | actacaaagg  | ggctcattgc  | acgaaaggag | 540  |
| ggcagggtatc | gagagccccc  | gcccaccctt | cccggctaca  | ttggaattcc  | cattactgac | 600  |
| tttccagaag  | ggcactccca  | tccagccagg | aaaccgccgg  | actacaacgt  | ggcccttcag | 660  |
| agatcgcgga  | tggtcgcaag  | atcctccgac | acagctgggc  | cttcatccgt  | acagcagcca | 720  |
| catgggcatc  | ccaccagcag  | caggcctgtg | aacaaacctc  | agtggcataa  | aycgaacgag | 780  |
| tctgaccgcg  | gcctcgcccc  | ytatcagtc  | caagggtttt  | ccaccgagga  | ggatgaagat | 840  |
| gaacaagttt  | ctgctgtttg  | aggcacagac | tttcttgga   | gcagagcgag  | ccacctgaaa | 900  |
| ggagagcaca  | agaagacgtc  | ctgagcattg | gagccttgga  | actcacattc  | tgaggacggg | 960  |
| ggaccagttt  | gcctccttcc  | ctgcctttaa | agcagcatgg  | ggsttcttct  | ccccttcttc | 1020 |
| ctttccctct  | tgcatgtgaa  | atactgtgaa | gaaattgccc  | tggcactttt  | cagactttgt | 1080 |
| tgcttgaagt  | gcacagtga   | gcaatcttcg | agctcccact  | gttgctgcct  | gccacatcac | 1140 |
| acagtatcat  | tccaaattcc  | aagatcatca | caacaagatg  | attcaactctg | gctgcacttc | 1200 |
| tcaatgcctg  | gaaggatctt  | ttttaatctt | ccttttagat  | ttcaatccag  | tcctagcact | 1260 |
| tgatctcatt  | gggataatga  | gaaaagctag | ccattgaact  | acttggggcc  | tttaaccac  | 1320 |
| caaggaagac  | aaagaaaaac  | aatgaaatcc | tttgagtaca  | gtgcttgtcc  | acttgtttac | 1380 |
| aatgtcctcc  | ttttaaaaaa  | aaaaaaatga | gtttaaagat  | tttgttcaga  | gagtaaatat | 1440 |
| atatccattt  | aatgattaca  | gtattatctt | aaaccttaag  | taggggtgcc  | agcctgggtt | 1500 |
| ctgaaaaaac  | aaatatgccg  | gacaggggtg | ggccacacca  | agaagacggg  | aagacctggc | 1560 |
| ttgtgaccct  | ggcttcccat  | gtccttctgg | tctcaccgcg  | gaagtgcctt  | atcctggaag | 1620 |
| tatgaaatgt  | tagccaatta  | ataccaagac | acctcatctg  | ctccttcccc  | agtggatggg | 1680 |
| gttcttctgt  | aaaactgttt  | gcacatggcc | aggggagggg  | actaggaccc  | ttgtgtcctg | 1740 |
| tctgagcctt  | atggaggcag  | gacgggtgtc | tgggcggatg  | tgctctgctc  | cattgagatg | 1800 |
| gatggcaaac  | cccattttta  | agttatattt | ctttgatctt  | tgtaatttta  | gaggtgtagg | 1860 |
| ttttgttttt  | tgtttttttg  | ttttttttta | agagaaacat  | ttataactgg  | atagcattgc | 1920 |
| agtgaagaca  | gcttgggatg  | ttggagctaa | tgccagctgt  | ttatactgct  | ctttcaagac | 1980 |
| agcctccctt  | tattgaattg  | gcattaggga | ataaacaagc  | ctttaaacgt  | gataaaagat | 2040 |
| caaaaacctg  | gttagacatg  | ccagcctttg | caaggcaggt  | tagtcaccaa  | agactaacct | 2100 |
| ccaagtggct  | ttatggacgc  | tgcatataga | gaaggcctaa  | gtgtagcaac  | catctgctca | 2160 |
| cagctgctat  | taacctata   | atgactgaaa | tgacctctcc  | actctatttt  | tgtgttgttt | 2220 |
| tgacacagact | ccggaaaagt  | gaaggctgcc | aatctgagta  | gtactcaaat  | gtgaggaaat | 2280 |
| gctgggtctg  | gatttttttt  | ccattaaatt | cagctgatca  | tattgatcag  | tagataaacg | 2340 |
| taaatagctt  | caaattttta  | aagtggaaat | gcagtgtttt  | ttcactgtat  | caaacaatgt | 2400 |
| cagtgcctta  | tttaataatt  | ctcttctgta | tcatggcatt  | tgtctacttg  | cttattacat | 2460 |
| tgtcaattat  | gcatttgtaa  | ttttacatgt | aatatgcatt  | atttgccagt  | ttcattatat | 2520 |
| aggctatgga  | octcatgtgc  | atatagaaa  | acagaaatct  | agctctacca  | caagttgcac | 2580 |
| aaatgttatc  | taagcattaa  | gtaattgtag | aacataggac  | tgctaattct  | agttcgctct | 2640 |
| gtgatgtcaa  | gtgcagaatg  | tacaattaac | tggtgatttc  | ctcatacttt  | tgatactact | 2700 |
| tgtacctgta  | tgtcttttag  | aaagacattg | gtggagtctg  | tatccctttt  | gtatttttaa | 2760 |
| tacaataatt  | gtacatatgt  | gttatatttt | tgttgaagat  | ggtagaaatg  | tactatgttt | 2820 |
| atgcttctac  | atccagtttg  | tacaagctgg | aaaataaata  | aatataacat  | aaaaaaaaaa | 2880 |

aaaaaaaaaa

2890

<210> 151  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (73)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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| gaactttttcc | atctggcaaa | ccggaaactc | catccccatt | aaaccaactc  | cccccttttgg |  | 60  |
| tttccccccc  | agnggaatag | aatttggacn | cccatataaa | tccaggaaac  | cacctaaatt  |  | 120 |
| cttttagtng  | ttgtgtttgc | aagatctaag | gtcatggtta | acattaagtt  | cttaaaattt  |  | 180 |
| ttggggaggga | ccagtgcacc | tctccctctg | aattgttcnc | caatttcaaaa | ttggagtaag  |  | 240 |
| gttttaaaaat | gtctnattcc | attggaaggg | tntgttattt | cattttgagc  | ccagagggga  |  | 300 |
| gaggcacatt  | ttaaatatca | gaattagatt | agctttgagt | ttgtacaatt  | gggaacataa  |  | 360 |
| tagattttca  | taaattatgt | gtgccttggt | ggaagtgtca | actgtcttta  | tgtctgcttg  |  | 420 |
| taaaagtttc  | aaaatatgtt | ttccctcaaa | aaggcaacgt | tacttcattt  | gcttgaatat  |  | 480 |
| tatgatagga  | atgcttactg | atattacttg | atagtcatat | atagcctagg  | aaatttaaca  |  | 540 |

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| tatatataac  | tatagcagta  | ttaataatga  | tagttgtact  | tctttaaaac  | attaaatttg | 600  |
| aggaaacttt  | aatgctgtct  | cgtgtacatt  | gctttactac  | agtgaggggg  | aatatccttt | 660  |
| agattgagcc  | tcaatttact  | ggttagtagt  | atgtgaactc  | tggatataaaa | acgtaaacta | 720  |
| gacagtagag  | ccgatgaatt  | aaaattgtaa  | attgctacat  | tggcatcttc  | tacctccttt | 780  |
| tctgtcagag  | tattactttt  | tccagcattt  | attcttattt  | gtgagtaaag  | aggaaatggg | 840  |
| aacctgaggt  | taaaattgac  | atttttgttt  | cattgagaat  | ttaagcagta  | ggtacaggag | 900  |
| aagtgacttg  | tcacattaat  | ttggtgccta  | aatctgtaac  | tacaagttgt  | gatcgacatg | 960  |
| tacaaaatgt  | ctaagaaagg  | tcatatgctg  | aatatctttac | ttttcctgta  | tagtctgcat | 1020 |
| gatttggtttc | ataaacccag  | cttattttcct | ccaaaaagca  | aaatggtoct  | gtaattttta | 1080 |
| aagtaaaata  | aacgtgccat  | tctgtctgca  | atctataatt  | tcaggaagtt  | attgraagtt | 1140 |
| ctgactcagg  | gctttctaac  | agttcaagca  | attgtcagtt  | atatcttgga  | aactccatct | 1200 |
| gtgtaattct  | ccagtgcctt  | gaaagaatta  | ttaacttggc  | aacactatta  | aaactttata | 1260 |
| aaagatggtc  | tttagtgcac  | gtgtatcatt  | atatacacgt  | tttaaagtca  | tattgcttag | 1320 |
| cttggttaata | atgattctgc  | atgtgtgctg  | ggtttgggta  | attctttaaa  | ggaagttttc | 1380 |
| tagatttgca  | cttgatgttt  | gttttttaaa  | aactgattcat | ttatggcogt  | gacactgtta | 1440 |
| ccagaaaagt  | aattctaatt  | aagttattat  | gcaaagtcac  | ctataagtag  | catctgggaa | 1500 |
| gaggagatcg  | aggccacagt  | ttgctatttt  | agtatgaaaag | gaggatctgt  | ctgggaaaca | 1560 |
| tagattgtct  | tccctcaaaa  | tgaggggaaa  | aaaaaagacc  | ctttgttcaa  | atggattctg | 1620 |
| ttgtaaaaaa  | ttacttttaa  | aggaaatcac  | aaattgtatg  | tcattcttaa  | tgctagtctt | 1680 |
| atagaataaa  | tccataaaat  | tgtttttatg  | ttcagratgt  | ttatgtcatt  | ctaaatgcag | 1740 |
| caaattcaat  | gatagcagtt  | caattgactc  | atagcagtgc  | tttgtatttt  | ttctaattct | 1800 |
| ttagctttca  | atattggatt  | aaagctttgt  | ttgtgaatat  | agttttccgta | tggcaaatga | 1860 |
| tttcttgctt  | attagctttt  | gttaaagaat  | gcttagtaag  | agctaagctt  | ttaaaagtaa | 1920 |
| tgcaaacatt  | tatcgttaat  | aaaacctatg  | gtgtaataatc | atataatgct  | tttctttgat | 1980 |
| ctttggagaa  | ttattctttt  | atagtagtat  | acatgaattt  | tgatttttaa  | agcattttaa | 2040 |
| aacaaatctc  | aatacattaa  | aaaacctgtt  | attgttaaaa  | rggaaattac  | catgccttta | 2100 |
| agaaacaagg  | atgtacatct  | tcaatttcagc | atragtgtcc  | acatctagaa  | ggctctcatt | 2160 |
| gcagttgttt  | acagtttaagg | tacctctatc  | taaagggcca  | aagaagcatt  | tcatayttta | 2220 |
| acacctcaca  | ttctttcagg  | attaagacat  | atgaaaatag  | tctgaatagg  | ataaatttgg | 2280 |
| ataggaagta  | acttaaccag  | tctgggaaga  | ttcaggcttc  | ttctatkaaa  | aagcttattc | 2340 |
| ctcttcacaa  | ctcnggtggt  | aggnntttcat | ttttcaagag  | ggtagatatt  | ttaaagcca  | 2399 |

<210> 152  
 <211> 802  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (105)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (730)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (755)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (757)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (777)  
 <223> n equals a,t,g, or c

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 taccacctgg actgcttttg atgtcagctt tgtaatcaga gattntgtgt tggagacaaa 120  
 tttttcctaa agaataacwt gaycctttgc caracggact acgaggaagg tttaatgaaa 180  
 gaagggttatg ccccccmggg tgcgtgatct atcaacatca ccccatlaag aatacaaagc 240  
 actacattct tttatctttt ttgctccaca tgracataag aattgacaca ggaacctact 300  
 gaatagcgtg gatataaggaa ggcaggatgg ttatatggaa taaaaggcgg actgcatctg 360  
 tatgtagtga aattgccccca gttcagagtt gaatgtttat tattaaagaa aaaagtaatg 420  
 tacatatggc tggatttttt tgccttgcctat tgcgttttctg gtcacttggc atgagatgtt 480  
 tattttggac tattgtatat aatgtattgt aatatttgaa gcacaaatgt aatacagttt 540  
 tattgtgtta ccatttgtgt tccatttgcct yctttgtatt gttgcattta gtacaatcag 600  
 tgtttaaact tactgtatat ttatgctttc tgtatttacc agctatttta aatgagctgt 660  
 aactttctag taaagaattg aaaagcaaat cctcactaaa ggatacacag gataggataa 720  
 agccaagtcn catcaacatt aaaaaatact aaaaananaaa acacaaaaaa aaaaaanccc 780  
 gggggggggc cggaacccat tc 802

<210> 153  
 <211> 461  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (437)  
 <223> n equals a,t,g, or c

<400> 153  
 ctaggagcac cgagcagctt ggctaaaagt aagggtgtcg tgcgtgatggc cctgtgcgca 60  
 ctgaccccgcg ctctgcncct tctgaacctg ggcggcccgga ccgtgcgcgc cccgtgccccg 120  
 agtctgttcc ccgcgcgccc gatgatgaac aatggcctcc tccaacagcc ctctgccttg 180  
 atgttgcctc cctgcccggcc agttcttact tctgtggccc ttaatgcca ctttgtgtcc 240  
 tggaagagtc gtaccaagta caccattaca ccagtgaaga tgaggaagtc tggggggccga 300  
 gaccacacag gtgggaacaa ggacaggggg atttaagcag tcaaaaaggaa aaacatgtta 360  
 agaccctaga cttgtatatt gacacacttg taccttgtaa ggcagaggaa tgtaattaaa 420  
 aagcacttat ttggcwnaaa aaaaaaaaaa aaaaaaaaaa c 461

<210> 154  
 <211> 2388  
 <212> DNA  
 <213> Homo sapiens

<400> 154  
 gcccacgcgt ccgaaagcgg agaacgctgg tgggcctgtt gtggagtacg ctttggactg 60  
 agaagcatcg aggctatagg acgcagctgt tgccatgacg gccagggggg gctgggtggct 120  
 aaccgaggcc ggcgcttcaa gtgggccatt gagctaagcg ggccctggagg aggcagcagg 180  
 ggtcgaagtg accggggcag tggccaggga gactcgctct acccagtcgg ctacttggac 240



|             |             |             |             |              |             |      |
|-------------|-------------|-------------|-------------|--------------|-------------|------|
| aagcaagtgc  | ctgataccag  | cgtgcaagag  | acagaccgga  | tccctgggtgga | gaagcgctgc  | 300  |
| tgggacatcg  | ccttgggtcc  | cctcaaacag  | attcccatga  | atctcttcat   | catgtacatg  | 360  |
| gcaggcaata  | ctatctccat  | cttccctact  | atgatgggtg  | gtatgatggc   | ctggcgaccc  | 420  |
| attcaggcac  | ttatggccat  | ttcagccact  | ttcaagatgt  | tagaaagtgc   | aagccagaag  | 480  |
| tttcttcagg  | gttctgggtc  | tctcattggg  | aacctgatgg  | gtttggcatt   | ggctggtttac | 540  |
| aagtgccagt  | ccatgggact  | gttacctaca  | catgcatcgg  | attgggttagc  | cttcatttgag | 600  |
| ccccctgaga  | gaatggagtt  | cagtgggtgga | ggactgcttt  | tgtgaacatg   | agaaagcagc  | 660  |
| gcctgggtccc | tatgtatttg  | ggtcttattt  | acatcctctt  | ttaagcccag   | tggctcctca  | 720  |
| gcatactctt  | aaactaatca  | cttatgttaa  | aaagaaccaa  | aagactcttt   | tctccatggt  | 780  |
| gggggtgacag | gtcctagaag  | gacaatgtgc  | atattacgac  | aaacacaaaag  | aaactatacc  | 840  |
| ataacccaag  | gctgaaaaata | atgtagaaaa  | ctttattttt  | gtttccagta   | cagagcaaaa  | 900  |
| caacaacaaa  | aaaacataac  | tatgtaaaca  | agagaataac  | tgctgctaaa   | tcaagaactg  | 960  |
| ttgcagcatc  | tcttttcaat  | aaatttaaag  | gttgagaaca  | atgcataaaa   | aaagtgcac   | 1020 |
| aagttcctta  | ttttccttaa  | tattttcact  | ctatttaata  | caagctggga   | cataaaaatt  | 1080 |
| ctgttggggg  | tacctggggg  | aagatgtgag  | aaactaatgc  | tgaattcagc   | ttatacatga  | 1140 |
| tgaaaagaaa  | aaccagacaa  | aaggagcaca  | taaatatgca  | tacagtgtaa   | ctgttattat  | 1200 |
| tttaataccc  | acgataaggg  | atttttgtta  | gcatgtttag  | ggggaacgag   | gattgggtggg | 1260 |
| atccttgggg  | ccacaggaat  | ctgaggcaac  | ggaagatata  | tagagtgatc   | gtccccctgc  | 1320 |
| cgaaggaacc  | tggcayctgt  | caagcagatg  | ctgcagttca  | aacttcagct   | tttaagatag  | 1380 |
| atagctattg  | aaggcagagg  | gtcagcagga  | ggatgtgtat  | ttctaattcta  | ccctgggtaaa | 1440 |
| gtcataggta  | agactcaaaa  | gctgggatctt | attcaaaaagg | caggtatttc   | ctttgttttc  | 1500 |
| tgtcttgaag  | tagccccctt  | ccctaagggtg | cattctctca  | agttttcagc   | attgctttat  | 1560 |
| ttgcagtgat  | taaaagagat  | gagagacttt  | ggagacagac  | aacgtaagca   | acacatacac  | 1620 |
| acatgaaata  | ctctagacag  | agatgaatat  | aaatctggcc  | taataaccag   | ttttccatgt  | 1680 |
| aacagtgatt  | ttgtgtttcg  | ggctgaagca  | gtggttarat  | taaaagccac   | taattccctt  | 1740 |
| atccctttta  | aagatttttta | caattctcca  | accacaaaaca | gcacttctaa   | aactaacttt  | 1800 |
| actttctgcc  | cataatttgt  | tctacatgga  | aaaaaaaaat  | attacttttg   | ccaggggtgt  | 1860 |
| gtgtaaatgt  | ggcagaatct  | ctaggcaggg  | tgacctttac  | agtatggggc   | tttaagatac  | 1920 |
| tggatccttg  | ttgggcaaca  | agtgtcacgc  | ctgaagtttc  | tgaacacaaa   | ttagaagact  | 1980 |
| gttggcttgg  | ctaattctgt  | agttcagggc  | caagtttctg  | tagtcagaat   | gaagaataaa  | 2040 |
| attgaaagaa  | aaaggggggaa | atgcttatata | ttggcatttaa | gttgaatgcc   | tcaagtctta  | 2100 |
| actatggctt  | tgtagatgag  | gcaaaaagatt | tcttagtggg  | aaaatttctt   | caacagggtca | 2160 |
| atgccaatct  | gtatgccatt  | ttagtaaagt  | aggtaaggag  | agtagccgct   | cagtaacttt  | 2220 |
| ggcactaaag  | aaagagtgtg  | gctctagaac  | ttccaatccc  | attgctagat   | gtgcccttta  | 2280 |
| aaagatggtc  | cagtgcctttc | agggaaaggat | gttttagccag | ttttcctagt   | atttgttctt  | 2340 |
| taagattttt  | tgacctgtgc  | ttaataagac  | ggacgcgtgg  | gtcgaccc     |             | 2388 |

<210> 155  
 <211> 642  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |              |              |             |     |
|-------------|-------------|-------------|--------------|--------------|-------------|-----|
| <400> 155   |             |             |              |              |             |     |
| aaaacagacc  | atttataaac  | tcagacaaga  | ttatatattaa  | tatatattaatt | actaaaaagg  | 60  |
| cacaagatta  | cactgaacat  | attagctact  | aaaaaggcac   | tgctaagaca   | ttcaagcaaa  | 120 |
| tagctattac  | acactactgc  | agatttttaca | ggttttctaatt | tctaacatat   | gtttgaaaaa  | 180 |
| tccgtgagta  | ttccaaaaata | tatttaataa  | tgggaatatct  | gcattaatat   | accatccatg  | 240 |
| tgttttttacc | attttgcctta | atattgaata  | tactgttttac  | ctcacactaa   | aaagaaaacc  | 300 |
| agaagcctta  | tttgtgattt  | tgggagtggga | agcttccatt   | tttgtgtcaa   | aaatgaatcc  | 360 |
| tgattctttat | ggaaatctct  | gttattaaga  | tattttcaaga  | tgagacaaca   | ctgaagatca  | 420 |
| aattgtgttt  | agtatcacta  | tcttctctct  | tctgtttctct  | cttactcctc   | atcctcccag  | 480 |
| aatctaccag  | tttatggtag  | aaagatggga  | accttattttg  | aatgtgtttt   | ttttttttcca | 540 |
| tgatgtocaa  | ttttgtgtgtg | ggaaaggatt  | tggataaaat   | ttttgtctaa   | atttgggtag  | 600 |
| atttttatct  | atacaaaattt | aaataaaatt  | atgttttcta   | ag           |             | 642 |

<210> 156

<211> 1251  
 <212> DNA  
 <213> Homo sapiens

<400> 156

```

gccgctgccc ctccacggag ttgctgatca tctgggctgt gatccacaaa cccggttctt      60
tgtccctcct aatatcaaac agtggattgc cttgctgcag aggggaaact gcacgtttaa      120
agagaaaata tcacggggccg ctttccacaa tgcagttgct gtagtcatct acaataataa      180
atccaaagag gagccagtta ccatgactca tccaggcact gagcatatta ttgctgtcat      240
gataacagaa ttgaggggta aggatatttt gagttatctg gagaaaaaca tctctgtaca      300
aatgacaata gctgttgga ctcgaatgcc accgaagaac ttcagccgtg gctctctagt      360
cttcgtgtca atatccttta ttgttttgat gattatttct tcagcatggc tcatattcta      420
cttcattcag aagatcaggt acacaaatgc acgcgacagg aaccagcgtc gtctcggaga      480
tgcagccaag aaagccatca gtaaattgac aaccaggaca gtaaagaagg gtgacaagga      540
aactgaccca gactttgatc attgtgcagt ctgcatagag agctataagc agaatgatgt      600
cgtccgaatt ctcccctgca agcatgtttt ccacaaatcc tgcgtggatc cctggcttag      660
tgaacattgt acctgtccta tgtgcaaact taatatattg aaggccctgg gaattgtgcc      720
gaatttgcca tgtactgata acgtagcatt cgatatggaa aggctcacca gaacccaagc      780
tgttaaccga agatcagccc tcggcgacct cgccggcgac aactcccttg gccctgagcc      840
acttcgaact tcgggggatct cacctcttcc tcaggatggg gagctcactc cgagaacagg      900
agaaatcaac attgcagtaa caaaagaatg gttttattatt gccagttttg gctcctcag      960
tgccctcaca ctctgctaca tgatcatcag agccacagct agcttgaatg ctaatgaggt     1020
agaatggttt tgaagaagaa aaaacctgct ttctgactga ttttgccctg aaggaaaaaa     1080
gaacctatct ttgtgcatca tttaccaatc atgccacaca agcatttatt tttagtacat     1140
tttatttttt cataaaattg ctaatgccaa agctttgtat taaaagaaat aaataataaa     1200
ataaaaaaaaa aaaaaccccc gggggggccc ggtccccaat tggccctatg g      1251

```

<210> 157  
 <211> 2127  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (312)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1212)  
 <223> n equals a,t,g, or c

<400> 157

```

ccggcgggag agggaagctg cagcgagagg cgcggatctc agcgcgggag cagtgtttct      60
gcggcaggcc cctgaggggag ggagctgtca gccagggaaa accgagaaca ccatcaccat      120
gacaaccagt caccagctc aggacagata caaagctgtc tggcttatct tcttcatgct      180
gggtctggga acgtgctcc cgtggaattt tttcatgacg gccactcagt atttcacaaa      240
ccgcctggac atgtcccaga atgtgtcctt ggtaactgct gaactgagca aggacgcca      300
ggcgtcagcg cncctgag cacccttgcc tgagcggaaac tctctcagt ccattctcaa      360
caatgtcatg accctatgtg ccatgtgcc cctgctgtta ttcacctacc tcaactcctt      420
cctgcatcag aggatcccc agtcggtacg gatcctgggc agcctgggtg ccattcctgt      480
ggtgtttctg atcactgcoa tcttggtgaa ggtgcagctg gatgctctgc ccttctttgt      540
catcaccatg atcaagatcg tgctcattaa ttcatttggt gccatcctgc agggcagcct      600
gtttggtctg gctggccttc tgccctgccag cttacacggc ccccatcatg agtggccagg      660
gcctagcagg cttcttttgc tccgtggcca tgatctgcgc tattgccagt ggctcggagc      720
tatcagaaag tgccttcggc tactttatca cagcctgtgc tgtkatcatt ttgaccatca      780
tctgtacct gggcctgccc cgccctggaat tctaccgcta ctaccagcag ctcaagcctg      840

```

|          |          |          |          |          |          |      |
|----------|----------|----------|----------|----------|----------|------|
| aaggaccg | ggagcagg | accaagt  | acctcatt | caaaggag | gagccaag | 900  |
| caggcaa  | ggaatct  | gtttcag  | ccaactct | gccacca  | gaaagcc  | 960  |
| ctatcaa  | gcatcct  | gaaa     | aatatct  | tcctgg   | ctctgt   | 1020 |
| ctatcac  | cat      | tggtt    | ccagcc   | ctgtg    | caagtc   | 1080 |
| gcagcac  | cctg     | ggaacg   | ttcatt   | cttgc    | aatatct  | 1140 |
| actggt   | tggt     | ccggag   | acagct   | tcagt    | tggaag   | 1200 |
| tgccaag  | cctg     | gntgct   | cggtg    | ttgtg    | gctgct   | 1260 |
| agcccc   | gcct     | ctacct   | gtggt    | ctctc    | ttcttc   | 1320 |
| ctgcct   | tttgc    | cttctc   | caac     | ggctac   | cctc     | 1380 |
| aagtga   | agcc     | agctga   | ggca     | gagacc   | gcag     | 1440 |
| tctggc   | actg     | gggt     | ctgtt    | tctcct   | gttccg   | 1500 |
| cagaagg  | act      | gcctg    | cctc     | ctccct   | gtct     | 1560 |
| atcctg   | agt      | gtctg    | gggt     | ttttt    | ctct     | 1620 |
| gggccc   | ggat     | ctcag    | gccc     | tggtg    | ggag     | 1680 |
| gtttgg   | ggt      | cagag    | tcgag    | ggacg    | gggt     | 1740 |
| tcttg    | gtct     | gactg    | atccc    | tgctg    | tgta     | 1800 |
| acgtgt   | gtct     | gtgtg    | tatgt    | gtctg    | tcaga    | 1860 |
| gtcctg   | gggt     | ggctag   | ggag     | tggt     | ctgac    | 1920 |
| tctccc   | ctgc     | gcctc    | ctct     | ctgtg    | ttctc    | 1980 |
| agttct   | tacc     | catcat   | gcac     | ctgtac   | agtt     | 2040 |
| tttgac   | agaa     | accagg   | tgcc     | ctcag    | agtt     | 2100 |
| ttctcc   | atg      | aaaaaaaa | aaaaaa   |          |          | 2127 |

&lt;210&gt; 158

&lt;211&gt; 1625

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1066)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 158

|          |        |         |        |         |        |          |        |          |       |        |        |      |
|----------|--------|---------|--------|---------|--------|----------|--------|----------|-------|--------|--------|------|
| caaaagat | ct     | ataatc  | agga   | cattgt  | tttat  | gtaagt   | tgga   | caanaaaa | aat   | tcttcc | cctt   | 60   |
| tatgtcc  | acc    | cttcct  | atga   | ttgca   | agaca  | aaattt   | ccct   | cctttac  | ctc   | atccct | tataa  | 120  |
| catggg   | aggc   | tgagaaa | aat    | gaggg   | agat   | ggaacc   | agat   | acaagg   | agat  | ccaata | agag   | 180  |
| aagctt   | at     | aaatatt | gtg    | aaataa  | agga   | agamcc   | aaag   | catttt   | ttta  | agtggg | gaat   | 240  |
| cctttt   | gaac   | agttatt | att    | tatccat | att    | attaaya  | aaca   | tctttt   | ctga  | caaaa  | ccat   | 300  |
| cagatga  | agt    | gtaaat  | ggat   | aatcttt | ttaa   | tgga     | ctaaa  | cctaga   | aaag  | ttcact | tact   | 360  |
| gttcatt  | gtc    | gtgtt   | ccaga  | attgtg  | aaat   | ggtgtg   | tggt   | tttgct   | ttcc  | aagtt  | tctt   | 420  |
| ctgcct   | cctc   | ttaatt  | ctct   | aattcc  | atgt   | cttacaga | ag     | aatgaga  | aat   | ttcttt | ctta   | 480  |
| cttgagt  | tatc   | atgct   | ctaaa  | aaactt  | ggct   | tcagtc   | acag   | aaacg    | ctggc | tctc   | gtgc   | 540  |
| ttatatt  | gaa    | gccaact | gccc   | tttaatt | ctt    | gggcc    | ctctt  | atat     | tttt  | ggtg   | caaaa  | 600  |
| ttgaagt  | ctc    | agtcacc | agaa   | cacagg  | ttct   | atacaat  | ttaa   | tgatg    | agctg | gagaag | taaat  | 660  |
| atgtag   | ctaa   | ttttt   | caaaa  | gcattg  | aaata  | tact     | ttccg  | aaagaa   | aaaca | gaaact | aaat   | 720  |
| attgcc   | acat   | cttgcc  | agaa   | tccc    | atctga | cacct    | ttaact | ttgtc    | aggtt | tcctac | aact   | 780  |
| tgcta    | atcaa  | gtttt   | tataca | ttcta   | aatct  | ccccag   | tttc   | tttggg   | gctg  | gaagat | gcaa   | 840  |
| cttcc    | atttta | atagaa  | actt   | tgaaat  | cttg   | gggta    | aggg   | gcagt    | ggggg | gactag | ggg    | 900  |
| aaggata  | agaa   | aataga  | aatta  | ttgaaa  | agcc   | cccacc   | aggg   | acctt    | cctgg | ccaga  | aatatg | 960  |
| cagagta  | aat    | cctgct  | ggct   | tcacct  | ttga   | aagtc    | ccctg  | aaact    | atgca | gatgaa | actg   | 1020 |
| agtctg   | ttt    | tgata   | attgtc | agatg   | tattc  | tacct    | tgga   | gtccc    | nacac | ctaa   | actgga | 1080 |

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| attcttgtat  | ttacatctcc | tccactgtcc  | cccacaccac  | ccctcaattc  | ctgctgcccc  | 1140 |
| tgctaattgtt | aagcattttt | ctcttgtrtat | catcagggttc | acattaaaam  | cagrtactta  | 1200 |
| caaaactgact | tgaagcacag | atactttttac | gaatgtgata  | aaatatttttc | ttaaagaaaag | 1260 |
| gaaagaggat  | gtgggtcaaa | taaaacaccg  | catggatggt  | gattgggtgaa | tactgggtgta | 1320 |
| agaaaaggga  | gctcaggaat | ttttattact  | gtatttgtaa  | atgagtttga  | aggaatttgt  | 1380 |
| aaatgccact  | ggtacatttt | taaggtgaca  | catttgctcc  | ttataaagtt  | attaaaaatt  | 1440 |
| acagggttaag | cttaaagtac | gtttgccagt  | agttttactt  | tatataatca  | atattgatat  | 1500 |
| tgttgctgaa  | ctatgtaact | ttatgatgca  | tttttcagtc  | ccttttcaga  | gcaaagtgtt  | 1560 |
| ttgcaatggg  | agtaatgttt | agtctaaatt  | gacttaataa  | attmttacct  | gagcaaaaaa  | 1620 |
| aaaaa       |            |             |             |             |             | 1625 |

<210> 159  
 <211> 1687  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (334)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (505)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1044)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1670)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1678)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1683)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1684)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 159  |            |            |            |            |            |     |
| cggggtcacc | agttattaga | ggaagtaaca | caaggggata | tgagtgcagc | agacacattt | 60  |
| ctgtccgata | tgccaagggg | tgatatctat | gtgtcagatg | ttgaggacga | cggtgatgac | 120 |
| acatctctgg | atagtgaact | ggatccagag | gagctggcag | gagtcagggg | acatcagggt | 180 |
| ctaagggacc | aaaagcgtat | gagacttact | gaagtgcaag | atgataaaga | ggaggaggag | 240 |
| gaggagaatc | cactgctggt | accactggag | gaaaaggcag | tactgcagga | agaacaagcc | 300 |

```

aacctgtggt tctcaaaggg cagcttttgcg gggnatcgag gacgatgccg atgaaggccc 360
tggagatcag tcaggcccag ctgttatcttg agaaccgggyg gaaggggacgg cagcagcagc 420
agaagcagca gctgccacag acacccccctt cctgtttgaa gactgagata atgtctcccc 480
tgtaccaaga tgaagcccc aaggnaacag aggcctcttc ggggacagaa gctgccactg 540
gccttgaagg ggaagaaaag gatggcatct cagacagtga tagcagtact agcaktgagg 600
aagaagagag ctgggaaccc tccgtggtaa gaagcgaasc gtgggcctaa agtcagatga 660
tgacgggttt gagatagtgc ctattgagga cccagcgaaa catcggatac tggaccccga 720
aggccttgct ctaggtgctg ttattgcctc ttccaaaaag gccaaagagag acctcataga 780
taactccttc aaccgggtaca catttaatga ggatgagggg gagcttccgg agtggtttgt 840
gcaagaggaa aagcagcacc ggatacgaca gttgcctgtt ggtaagaagg aggtggagca 900
ttaccgaaa cgctggcggg aaatcaatgc acgtcccatc aagaagggtg ctgagggctaa 960
ggctagaaaag aaaaggagga tgctgaagag gctggagcag accaggaaga aggcagaagc 1020
cgtggtgaac acagtggaca tctncagaac gagagaaagt ggcacagctg cgaagtctct 1080
acaagaaggc tgggcttgcc aaggagaaac gccatgtcac ctacgttgta gccaaaaaag 1140
gtgtggggccg caaagtgcgc cggccagctg gattcagagg tcatttcaag gtggtggact 1200
caaggatgaa gaaggaccaa agagcacagc aacgtaagga acaaaagaaa aaacacaaac 1260
ggaagtaagc agagctgcc aagctcccag agagcatggg gactaggagg aaggggtgtg 1320
catggctcag tctggcccc ttgattaccg gcctagcccc tgctcacatc acagctgtct 1380
gaagaacagt gaggtggagt gcctagaact cccgtgggtg tcttgagcag agaggaggat 1440
gtcctcctgc ctgcttgaag gtctcccatg aaaacactgc tgaactgtgt tgacactcat 1500
gacctttttt ttaaaccgtt aaagggaagt tcggtgttgg agcgatactc aatgtagtca 1560
gtctacacct ggacgtgtgg gccacttaag cctcccccac ccccatccta ttcttraata 1620
aaaccaggat aatggaaraa aaaaaaaaaa aaaaaaaag ggggggccc n taaagggncc 1680
cannttt 1687

```

```

<210> 160
<211> 1842
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (62)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1793)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1834)
<223> n equals a,t,g, or c

```

```

<400> 160
ggatgacaga ttgcgacana gatttgtgac ccttctctgt gaacttcaga gggagctgaa 60
ancagcgtat gatcaaagac aaaggcaggg cgagaacagc actcaccagc agtcagccag 120
cgcctctgtg ccccgagaat cctttacttc atotaaaggc agcagtgaaa gaaaagaaaa 180
gaaacaagaa gaaaaaaacc attggttcac caaaaaggat tcagagtccct ttgaataaca 240
agctgcttaa cagtccctgca aaaactctgc caggggcctg tggcagtcct cagaagttaa 300
ttgatgggtt tctaaaacat gaaggacctc ctgcagagaa acccctggaa gaactctctg 360

```

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| cttctacttc  | aggtgtgcca | ggcctttcta  | gtttgcagtc | tgacccagct | ggctgtgtga  | 420  |
| gacctccagc  | acccaatcta | gctggagctg  | ttgaattcaa | tgatgtgaag | accttgctca  | 480  |
| gagaatggat  | aactacaatt | tcagatccaa  | tggaagaaga | cattctccaa | gttgtgaaat  | 540  |
| actgtactga  | tctaatagaa | gaaaaagatt  | tggaaaaact | ggatctagtt | ataaaatata  | 600  |
| tgaaaaggct  | gatgcagcaa | tcggtggaat  | cggtttgga  | tatggcattt | gactttatct  | 660  |
| ttgacaatgt  | ccagggtggt | ttacaacaaa  | cttatggaag | cacattaaaa | gttacataaa  | 720  |
| tattaccaga  | gagcctgatg | ctctctgata  | gctgtgcat  | aagtgtctgt | gaggatattg  | 780  |
| caaagtgc    | gatagtaatg | ctcgaggtt   | ttataatttt | aaatttcttt | taaagcaagt  | 840  |
| gttttgtaca  | tttcttttca | aaaagtgcc   | aatttgtcag | tattgcatgt | aaataattgt  | 900  |
| gttaattatt  | ttactgtagc | atagattcta  | tttacaaaat | gtttgtttat | aaagttttat  | 960  |
| ggattttttac | agtgaagtgt | ttacagttgt  | ttaataaaga | actgtatgta | tatttgggtac | 1020 |
| rggctccttt  | tkgtgaaycc | ttaaaaactc  | aactctagga | rgcaactact | gtttattata  | 1080 |
| ctaaarggct  | gaaaamcctc | caggccagac  | tgctaagctc | tgaaatycct | gagaggctct  | 1140 |
| agaccgggat  | tctacttggt | ccaagaaagg  | gtaaagcttc | taaaccatct | tattcttgtc  | 1200 |
| tccaagcatg  | aacacaggag | catgtyaaga  | aaatctttac | tactttctyc | catgaggaga  | 1260 |
| aatctacata  | tttgaatta  | gaaacaccct  | cacaccact  | tgaagatttt | tttctgggga  | 1320 |
| acattatgtc  | ccgtagatca | gagggtggtg  | tgtctttttg | cttctactgg | ccattgagaa  | 1380 |
| acttttgatga | taaaaaagaa | cggatatagat | ttttcaaacy | tatataaaat | atttttatgt  | 1440 |
| tatatgttat  | gccataacct | taaaaataaaa | atagtttaaa | attctatgct | agtggatatt  | 1500 |
| tggaactttt  | tcctcaaaca | aacaccccac  | actgacttca | gcaaaaccct | aaaactagct  | 1560 |
| acagattact  | actacgaatg | aatcatyaag  | ttttgtgtct | gcaacaattt | agaagcacta  | 1620 |
| agcccaaata  | tcaggaaatg | tgtgtatgat  | ggaattttct | aggacaaaac | agatcaagat  | 1680 |
| taaaacagga  | tcaaggatta | atggtataaaa | aatggtctac | taaaacagga | tcaaggatta  | 1740 |
| aaacaggatc  | aaggattaat | ggtataaaaa  | tctctactgg | ttaccgggtg | gcngggccat  | 1800 |
| acagggtagt  | ggtggatgga | tagtttagtt  | tggnagggt  | aa         |             | 1842 |

<210> 161  
 <211> 770  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (744)  
 <223> n equals a,t,g, or c

|             |             |             |            |            |             |     |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| <400> 161   |             |             |            |            |             |     |
| ggcacgagcc  | ctatgctgtt  | cttgtgataa  | tgagtgaagc | tcacaagatc | tggtgggtgtt | 60  |
| ataggcatct  | ggcattttcc  | ctgctgagcc  | tcattctcta | tcctgccacc | ctgggaagaa  | 120 |
| gtgtcttctg  | tcattgattgt | aagtttctctg | aggcctcccc | agctatgtag | aactgtgagc  | 180 |
| caattaaacc  | tcttttctct  | ataaattatc  | cagtcttata | tatttcttca | tagcagtgtg  | 240 |
| agaacagata  | ataccgtaaa  | ttggtatcac  | agagagtggg | gtgttgctat | aaacacatct  | 300 |
| gaaaatgtta  | aagcaaat    | ggaactgggt  | aacaggcaaa | ggctggaaca | gttkgaagaa  | 360 |
| cagttaagaa  | gaagacagga  | aaatatgaga  | aatcttgaaa | cttcctagag | tcttaaagggt | 420 |
| ctcagaagac  | atgaagatgt  | gggaagcttt  | ggaacttctc | agagacttgt | ttgaatggct  | 480 |
| ttgaccacaaa | tgtgataggt  | gatattggaca | atgaagtcca | ggctgagctt | atccagacag  | 540 |
| acataagaag  | ctcgctggga  | acttgagtaa  | agatcactct | tgctaggcaa | agagactggt  | 600 |
| ggcctttttt  | cctctgccct  | agagactctgt | ggaaatctga | acctgagaga | gatgatttag  | 660 |
| ggtatctggc  | agaagaaata  | tctaagcggc  | aaaaccttcm | agaggaagca | gagcataaac  | 720 |
| gtttgaaaaa  | tttgcagcct  | gacnatggga  | gaccaaagtt | aaacccaatt |             | 770 |

<210> 162  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 162  
gaattcggca cgagctgaga ggcacaggag caacagccag tgccccctgc agaggaccac 60  
tgggggtcaca gacttcarac ctgatgacct gggctcagat cccagctctg cacctaccag 120  
ccgtgtgaca aggtgtcctc tctgagcctc agtcacacac tgcccttaacg gttggggcctc 180  
atggagctgt ttgtgaaggt taaatgggaa gacataaagc acttagccca gagccaagga 240  
catgctgaat aggataatgg tggcctcctt tggcgtctgt ctggtgcagg tgtgccgagg 300  
aaytgggcag gggtgacaga tacctcttct aacctagtct ctttccaaga acctaatgg 360  
tgtctctccc tccccagggc aattggaagg aggaggctgg gccccagccc cagaatacgg 420  
gaggtttctc accgtggtag ggaaattgct gggttggggg tgtgggcaac cacagtgate 480  
gtctctctgc aggacggatg aggctttgct gacagagggc 519

<210> 163  
<211> 753  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (720)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (730)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (736)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (741)  
<223> n equals a,t,g, or c

<400> 163  
ggcagcagcg gcacgagcag ccagttgctg actggcacat ggccctccagc gtccccggctg 60  
gtgggcacac tagagccgga gggatcttct taattggtaa attggatctt gaagcttcac 120  
tgtttaaatc ttttcagtgg ctcccttttg tacttagaaa aaaatgcaac ttctctctgt 180  
gggaactcatc cgctcacagc ctccctctcc accctctctc tgccctcatgc tctgccccctg 240  
cctgccatgc ctccgatact caccttttgt accccagcac ccgtgcccctc tgccccctoga 300  
tctttgcctg gctgggtgct cctcactcag tgttcaggac aaatgctcct ggccctaccc 360  
catctagcca gtctagcccg gtcttcccctg tcttccctgt ttcattcatg gctcttattg 420  
tttgttwact tgtgtgctgt tgacttttaa ctctctcagt cccactgga atgcaagcga 480  
tctcccaagc tcttagaatt gttcctgcct cttcacaggc ccttacgctg tgtgtgctcg 540  
tgccgaattc ggcacgaggg tatgtgcact tgctggtatg tatgtagggtg tttgctaaca 600  
catacgtgca cagcagaat gcttccaggg gactgcacag cctctagtct gcagccccca 660  
ccccctcctt tgcctctgca ctctcccctc tctgagctgc attcgcacga aagggtgcan 720  
ggttctctgan cccgcnagcg ncacctcctg gga 753

<210> 164  
<211> 1893  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 164

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tcgaggttttt | tttttttttt  | tttttttkt   | aatttcaaaca | aataccaaaa  | gctttatttta | 60   |
| agcaaaaaaca | cattcaacca  | cagaacattc  | agaaagctaa  | caggatcatt  | tctacattca  | 120  |
| ttctgcaaac  | agtgtagtaa  | gaaaggtaat  | ttgagaattt  | ccaaagatgt  | tctcgctagc  | 180  |
| cattattttat | ggtaattaca  | taacattttg  | atgtcaagtt  | attacagact  | taaaagttaa  | 240  |
| tatagcataa  | ttttacaatc  | gtactttcac  | tatgattttt  | attttaaccc  | tggatattat  | 300  |
| tggtttgaag  | ctaattattat | cagtcctatt  | ggctgtcact  | gtcacagatc  | tgaagatatg  | 360  |
| tttaaattca  | tcaagctagg  | aagatatcaa  | aatattaaca  | atcttcaagt  | atagtggagaa | 420  |
| aaaaactgat  | ttaagtgtta  | gcattttctaa | acttgagact  | ctaacagtaa  | aaacaaaagta | 480  |
| atctgaaacc  | tgttttccatg | ggtaaaaacac | tctgcctggg  | attcttgtac  | acaaaaattta | 540  |
| ctaaatatgt  | gaatatcata  | aaatgaaaat  | atcactccct  | tcaatttctt  | tggccttcac  | 600  |
| aaattcaatg  | tgactatgat  | ccttttcaat  | aatacttyca  | atgacattgt  | gcttcttttag | 660  |
| aaaaatcact  | taagttgtag  | catacaatag  | ttaacattag  | ttcttttatt  | gctatgggat  | 720  |
| atgctaattt  | ttttaaaagg  | ggaaaaaaa   | accagagaa   | cttattaaaa  | tgtttggttaa | 780  |
| agcaaacatt  | tcagttgggt  | tccttttctt  | gaagaataat  | agaaataaat  | gtcagaggag  | 840  |
| tattactaag  | gagccaaaac  | aaacaaaaca  | acaaaaaaac  | aaaaaactcc  | tttattactc  | 900  |
| ccatcctcag  | aactaactca  | agacaagaga  | tctgtattca  | aaaagataaa  | acaatctcat  | 960  |
| ctcagtaact  | acctcctatg  | aaacctaaga  | gagaaaaacct | gtaatagctc  | tcttaaccaa  | 1020 |
| cagccccatc  | tgacatcac   | caagcaccag  | ttccctttgg  | gtagcagtaa  | tgcttggttt  | 1080 |
| tcattctttgc | atattaagga  | ctgttggttaa | cagattttatg | ggtcatttgt  | agcttacttt  | 1140 |
| gcaaatacct  | ttcacttctt  | atgaaacaca  | atatgcccc   | aaacatggac  | cattattcaa  | 1200 |
| gtagacaaaa  | tcactcactg  | acagcacttt  | aacaaccgc   | ctccactyca  | tcttccatt   | 1260 |
| ctctcaccct  | atgccttcca  | atgaacctag  | tctttgctag  | tgatgagtoc  | atctggggac  | 1320 |
| aaatactgct  | ttaaagatga  | tgtaattttc  | aatgccaaac  | acagtgaact  | tcccataata  | 1380 |
| ggtattaata  | aacacttggt  | gacatagtta  | taataagcta  | aaaatagtta  | acatttaattt | 1440 |
| tgctctttat  | ctttttattct | tatggcatag  | aattttatttt | aaaagactga  | aaaactgatt  | 1500 |
| ccaatgtaat  | aatcacttac  | tggggcacac  | gctagatgac  | agacatgect  | ccctgcctaa  | 1560 |
| aaagggctca  | aaggaactct  | cagttataca  | tgagtgaatt  | aaaactttta  | atgtactaca  | 1620 |
| agaaagaact  | ttttatatga  | aggattcctt  | atgtagagta  | tcttttttga  | aaaatcagat  | 1680 |
| tttcttatcc  | tatattacac  | tggttttaat  | tgggcatgct  | cacttttagtg | gtgtgootca  | 1740 |
| ttacaatgtc  | tcttttgtgt  | taagaattaa  | cttacaaaag  | catttaaaaa  | tcactacatc  | 1800 |
| aaatgggata  | gagagtaaga  | agacaggaga  | gagaggagaa  | accatgtttt  | ttcgggacg   | 1860 |
| tgggtcgacc  | cacgcgtccg  | cggacgcgtg  | ggc         |             |             | 1893 |

&lt;210&gt; 165

&lt;211&gt; 2153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1670)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2134)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2135)



&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 165

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| caggcctcag  | ggcctctggt  | ggctctggcc  | cagacagtat  | ttgcagttct  | tgtgctatgg  | 60   |
| gtgggagtct  | tcttcctcaa  | gtttcggcag  | ctgtgctgtg  | notggatggg  | ctgctcctcc  | 120  |
| cagggctcaa  | gggctgtggt  | ccgctcaggg  | tctcatttcc  | ccaggccaag  | ttcaaggcag  | 180  |
| cagccctttg  | tgaggcgctc  | ttggccctgg  | gctggaggga  | gaactttaag  | cttttttgct  | 240  |
| cacagggacg  | tggatggggc  | cctgggtgca  | ggtgcccaca  | ttctgctaata | gagagctttg  | 300  |
| tctgatcagt  | cctgggtcca  | tcagtttgct  | catgtgtccg  | gctgccagcc  | cgctccctgg  | 360  |
| gacccctccc  | ctgggggtga  | gccttggtca  | ttagtatata  | ctcattcctt  | catgctttcc  | 420  |
| tcagcagaac  | acttcacatt  | ctgaggtgag  | cttttgcccc  | rtgcccttcc  | tcacaggtg   | 480  |
| ttgccttttt  | ataaagacct  | gatagcagaa  | taaattgggtg | ttccctgtt   | gacccagcac  | 540  |
| cattttctgtg | ggcctagaat  | atggccctca  | acccttagag  | tggggcagtg  | agggcctgag  | 600  |
| gagtgaacct  | tcctttctca  | tggttttagt  | cattttggct  | gccagccctt  | aatggcacag  | 660  |
| atctgctgct  | tctaacagat  | ggccaggagg  | tgacaccgat  | ttcagccatt  | gccaagggtta | 720  |
| gcacccctctc | ctttgagcct  | agggccacac  | tgttcattgt  | cacttttaggc | aagtgcctgt  | 780  |
| ttggcttttaa | aggtaagcct  | gccagctgtg  | agaagccttg  | gtaactgatg  | gactcatttc  | 840  |
| ctggtcctta  | aagatgcagc  | ctcttaaggg  | ctccttgatg  | gatgccatct  | ctcctagccc  | 900  |
| ccagccctgg  | tgccactggt  | gggcagggtc  | ccattctttg  | gggctgggag  | ggacagcttg  | 960  |
| cctgtttctg  | gtcacaaatt  | acagtcttct  | ctcctgtacc  | attctgtggc  | ttcagcatgg  | 1020 |
| gggcagtagc  | ctttcattag  | tgtagatagt  | cattccctgg  | taggggtggag | ggtaagacat  | 1080 |
| agggctctgga | actgtttggg  | accttttggg  | gatgtcctgt  | gcctcccaga  | ttcctmgatt  | 1140 |
| ctgggaggag  | aggctgccgc  | attctgctgc  | tcctcacagc  | gagcaaaagt  | gcacccactt  | 1200 |
| acattcagta  | ttttcctggc  | actacaaaga  | gtgggaaggc  | ctgggatttg  | ctgctgctcc  | 1260 |
| cttagagcag  | ggccccctyt  | ttcagcactt  | tggaacacctg | gagacccagc  | cctgttatct  | 1320 |
| aatggtagtg  | ggcaagtgtg  | tgtgcatact  | gtctgccact  | gctttctccc  | tgccccatgc  | 1380 |
| cagagagccc  | tgccccctgcc | aggcccagcc  | ttcttagccc  | caacttggga  | acaaagtcca  | 1440 |
| acatgggatc  | atgggttggg  | gtgctcaggt  | gagccctctc  | tatagtgtct  | ccctgggcca  | 1500 |
| agctgacacc  | agccccctgag | ggtgggggtg  | gacgggtggt  | gcttaaaaga  | ggaaggggac  | 1560 |
| cagtgtagca  | acttgccagg  | gacccacccc  | ctccctctct  | gggcctgtgc  | agtgagcatg  | 1620 |
| gggattccca  | tcaaggggcc  | tggcacctgt  | gctagttagc  | tagccgctgn  | tcacgcgctc  | 1680 |
| actcctgacc  | acatgcacgt  | tccttagatg  | cagactgtct  | tgaactttaa  | agctgtacaa  | 1740 |
| tttggttatg  | tttgtgtgta  | cttaaaatat  | attttaatga  | ggaaaaaata  | atggagaacc  | 1800 |
| ctgggaagga  | cctgggttctt | ttgtctctcg  | gggaactgta  | agccctcgcg  | ttctgggaat  | 1860 |
| cgctctctgc  | tgccttttcc  | tggaaagctaa | gcctgtctcc  | accgcccag   | gcctgcgcgc  | 1920 |
| gtgctccgcg  | cgcagttgog  | tttgcttttg  | acctgctgtg  | cgggggaggg  | ggtgctcggt  | 1980 |
| ccgagcccgc  | tcctttctgt  | acacctagcg  | ctgcccgcgc  | cgcttgtgtc  | tgaggtcgtg  | 2040 |
| tatgtcaaaa  | ataaagccgc  | tagaaacgga  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 2100 |
| aaactcgagg  | ggggggccgt  | acccaattaa  | cccnntatga  | tctataaagc  | gtc         | 2153 |

&lt;210&gt; 166

&lt;211&gt; 1251

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 166

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| gcccacgcgt | ccgcccacgc | gtccggcggt  | gaggagtatg | gggcgctgat | ggccatggag  | 60  |
| ggctactggc | gcttcctggc | gctgctgggg  | tgggactgct | tcgtcggtct | cctgtcggtg  | 120 |
| atcttcgccc | tcgtctgggt | cctccactac  | cgagaggggc | ttggctggga | tgggagcgca  | 180 |
| ctagagttaa | actggcacc  | agtgtcctatg | gtcaccggct | tcgtcttcat | ccagggcac   | 240 |
| gccatcatcg | tctacagact | gccgtggacc  | tggaaatgca | gcaagctcct | gatgaaatcc  | 300 |
| atccatgcag | ggttaaatgc | agttgctgcc  | attcttgcaa | ttatctctgt | ggtggccgtg  | 360 |
| tttgagaacc | acaatgttaa | caatatagcc  | aatatgtaca | gtctgcacag | ctgggttgga  | 420 |
| ctgatagctg | tcatatgcta | tttggttacag | cttctttcag | gttttccagt | ctttctgctt  | 480 |
| ccatgggctc | cgctttctct | ccgagcattt  | ctcatgcccc | tacatgttta | ttctgggaatt | 540 |
| gtcatctttg | gaacagtgat | tgcaacagca  | cttatgggat | tgacagagaa | actgattttt  | 600 |
| tccttgagag | atcctgcata | cagracattc  | ccgccagaag | gtgttttctg | aaatacgctt  | 660 |

|            |             |             |             |            |            |      |
|------------|-------------|-------------|-------------|------------|------------|------|
| ggccttctga | tcctgggtgtt | cggggccctc  | atTTTTtTga  | tagtcaccag | accgcaatgg | 720  |
| aaacgtccta | aggagccaaa  | ttctaccatt  | cttcatccaa  | atggaggcac | tgaacagggg | 780  |
| gcaagaggtt | ccatgccagc  | ctactctggc  | aacaacatgg  | acaaatcaga | ttcagagtta | 840  |
| aacagtgaag | tagcagcaag  | gaaaagaaac  | ttagctctgg  | atgaggctgg | gcagagatct | 900  |
| accatgtaaa | atgttgtaga  | gatagagcca  | tataacgtca  | cgtttcaaaa | ctagctctac | 960  |
| agttttgctt | ctcctattag  | ccatatgata  | attggggctat | gtagtatcaa | tatttacttt | 1020 |
| aatcacaaag | gatggtttct  | tgaaataaatt | tgtattgatt  | gaggcctatg | aactgacctg | 1080 |
| aattggaaag | gatgtgatta  | atataaataa  | tagcagatat  | aaattgtggg | tatgttacct | 1140 |
| ttatcttggt | gaggaccaca  | acattagcac  | ggtgccttgt  | gcakaataga | tactcaatat | 1200 |
| gtgaatatgt | gtctactagt  | agttaattgg  | ataaactggc  | agcatccctg | a          | 1251 |

&lt;210&gt; 167

&lt;211&gt; 882

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (522)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (752)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 167

|             |             |              |            |             |            |     |
|-------------|-------------|--------------|------------|-------------|------------|-----|
| gacsmcttag  | aactatgggtc | ccccggggact  | gcaggaattc | ggcacagcgg  | ctgcggggcg | 60  |
| gaggtgaggg  | gcgcgaggtt  | cccagcagga   | tgccccgggt | ctgcaggaag  | ctgaagttag | 120 |
| aggcccggag  | aggcccagc   | ccgcccgggg   | caggatgacc | aaggcccggc  | tggtccgggt | 180 |
| gtggctgggtg | ctggggtcgg  | tggttcattgat | cctgctgata | atcgtgtact  | gggacagcgc | 240 |
| aggcgcgcgc  | cacttctact  | tgcacacgtc   | cttctctagg | ccgcacacgg  | ggccgcgcgt | 300 |
| gcccacgccc  | gggcccggaca | gggacaggga   | gctcacggcc | gaytccgatg  | tcgacgaktt | 360 |
| tctggacaak  | tttctcagtg  | ctggcgtgaa   | gcagagttag | yttcccagaa  | aggagacgga | 420 |
| gcagccgcct  | gcgcggggga  | gcattggagga  | gagcgtgaga | rgctacgact  | ggtccccgcg | 480 |
| cgamgcccgg  | cgcacccaga  | ccaggccggg   | cagcargcgg | anccggaggat | cgtgctgcgg | 540 |
| ggcttctgcg  | ccaaytccag  | cctggccttc   | cccaccaagg | agcgcgcatt  | cracgacatc | 600 |
| cccaactcgg  | agctgagcca  | cctgatcgtg   | gacgaccggc | acggggccat  | ctactgctac | 660 |
| gtgcccaagg  | tggcctgcac  | caactggaag   | cgcgtratga | tcgtgctgag  | cggaagctgt | 720 |
| gcaccgcgtg  | cgctaccgc   | gacccgytgc   | gntcccgcgc | gagcacgtgc  | acaacgccag | 780 |
| cgcgactga   | cttcaacaat  | tctggcgccg   | ctacgggaag | tctccccac   | ctcatgaagt | 840 |
| caagctcaag  | aatacaccaa  | ttctttctgc   | gcgacccttc | tg          |            | 882 |

&lt;210&gt; 168

&lt;211&gt; 1208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (161)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 168

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ttcagaggaa | aaataagttc | tgtatatgtt  | ttagctaaat | agtattatTT | ttgtcatatt | 60  |
| cccaaattgg | aagtcccagt | acataattagc | ctattacaat | tctaagttat | ttgcagtaaa | 120 |

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| gaatatagat  | gaagctgggtc | tcattttctat | tttccaagtk | nytggggggcc | atagtgattt | 180  |
| ttttttaacc  | tgacaacacc  | tcagggaaat  | ttatggttta | cagagcacia  | cattgtaaat | 240  |
| tatggcaaag  | taaaaaagaa  | aacactgaat  | ttcaacttgg | aaaatcagaa  | tgctgttgct | 300  |
| aatagtatta  | gtagcaaata  | tattaagrat  | gtcaaatatg | tcaaatgctg  | ttgtaagtga | 360  |
| tttacatata  | ttagtacatt  | taatctcaca  | taaagcaaat | taagtaatat  | cattagctcc | 420  |
| attctacaga  | tataaagacc  | gagactcagg  | traattaagg | tactcaccca  | aatttacata | 480  |
| gcagaactga  | aattcaaact  | targcaatta  | gtctccagtc | taagatttta  | actgcactgt | 540  |
| tattctgtcg  | ctgttaccta  | ctaattgggt  | wacctgtggc | aagctatttt  | accyctctaa | 600  |
| gtcaagctgt  | ctattgatca  | gacagattaa  | kgttwtctga | wgtggsgkgtc | mtaaggratc | 660  |
| agtatttaac  | agagtcaaat  | gcagtgcctg  | aaatatgcag | ttgggtactca | taatamttat | 720  |
| ttattaaatg  | agaytcaaga  | actctagatt  | tggttatcyt | cctagctgtg  | wamacacagc | 780  |
| tatttgttac  | ctatcgttat  | tagaggaaca  | ggcataaagc | tggtgctgagy | tgcttgacgg | 840  |
| aaaattccca  | ctctagaact  | tcaactggat  | ctttagaact | aatcattaat  | cttggaatta | 900  |
| cccagggtga  | ttgcccattg  | caactcatac  | cacaggcatt | tcacgtactg  | tatgcattcc | 960  |
| tcaaaccagg  | gcagggggat  | caggaaatga  | tttaaaccog | tcaactgagg  | agccccagga | 1020 |
| ggaccatgca  | ctggctgccc  | tgacatttta  | ccaaatgtgg | ctgtcctgtc  | atgatccttt | 1080 |
| cttaagaatc  | cctacgtaat  | tccaaagcta  | atattwaaat | atacgtaaata | acctctatct | 1140 |
| tcaactctgta | tcccttyact  | tctaggctct  | ggctccatca | accattccat  | catcctcttg | 1200 |
| agtttccc    |             |             |            |             |            | 1208 |

<210> 169  
 <211> 1258  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| <400> 169   |            |            |             |            |            |      |
| ggcacgagag  | aaaagagggt | gagaatgttt | tctagcaggg  | agaatgtgca | tacatgtttt | 60   |
| catgagtgtc  | ctttgggtgc | tgtttctttt | aaatcctctg  | tgacacaggg | tctggccttt | 120  |
| agtaaaactgt | ttttctgtct | tacgtcatgc | tgactgggtg  | ctaggggctg | attacaaaag | 180  |
| ggaagagtgt  | aacagacatc | aggggcccgt | gaaaccaaag  | gactaggagt | caggagaaca | 240  |
| agtcagggat  | taggagacag | cggtttgggt | tattgtttatc | cagctggagg | actcctaggg | 300  |
| gcagcagcag  | gaggaatacc | agggccacgg | aggggcccag  | agtctcacag | tgaggggcag | 360  |
| actctaacag  | atgccagctg | aacgctcgct | ggccctggat  | gtcatacag  | ttggggacca | 420  |
| gaaatctggg  | ctcagagaac | ccgtccaggg | agatttgaag  | ccatgggtta | tcttctagag | 480  |
| ttgatactga  | taatatattt | taatttttat | tgatgtttta  | tacottctga | aacaggaggg | 540  |
| taagatcaga  | tggaagccc  | ctctgttgaa | ggatcttggg  | aacttgggtg | tttttttttt | 600  |
| ttgggtttttt | tttttttgat | cgagctgtgg | acatccttct  | taattcgatt | ctgaggattt | 660  |
| gtttaactaa  | aaagttccca | aacacagaaa | gggcctcccc  | acctgctttg | gggagctgtc | 720  |
| tgtgctggga  | gtgccaggca | tcccattggg | cccatcactg  | ccagtgtctg | tgccctccag | 780  |
| aggtcagccc  | tgtgtctgcc | ctggctctgt | ctcctctgtg  | acagggcaga | gcatttctgg | 840  |
| tcagttctct  | catggtgcct | cccacccttt | gtaaagtgtg  | tggacatgat | ggaattcagt | 900  |
| tgtctcacc   | tgatagcctg | ggtgttgata | ttcactttac  | ccgcactcag | acacaggcga | 960  |
| ccttgaagca  | gttctcggtg | tgtagagtcc | acgtgacagt  | ccccacagcc | tccccagata | 1020 |
| gctgtgtgcc  | tgtgcgctac | tgctgtgcca | ttttcccaac  | ttggcggttt | actaaatgca | 1080 |
| gctgatctct  | ctctctgtgc | actcgtgatc | catgttgaac  | aatacatgta | ggttcttttt | 1140 |
| ccacgcaatg  | taagaacatg | atatactgta | cgttggaag   | catttacctt | atttatatac | 1200 |
| ctgaatgttc  | ctactacaca | aataaacata | tattaatctc  | taaaaaaaaa | aaaaaaaa   | 1258 |

<210> 170  
 <211> 1624  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 170  |            |             |            |            |             |     |
| ggcacgaggt | cgccgcgcgc | gcccgcctgga | attgtgggag | tgtgtctgct | cactcggtctg | 60  |
| cgggaggcga | aggtccctga | ctatggctcc  | ccagagcctg | ccttcactta | ggatggctcc  | 120 |

|             |             |            |            |             |            |      |
|-------------|-------------|------------|------------|-------------|------------|------|
| tctgggcatg  | ctgcttgggc  | tgctgatggc | cgcttgcctc | accttctgcc  | tcagtcatca | 180  |
| gaacctgaag  | gagtttggcc  | tgaccaaccc | agagaagagc | agcaccaaag  | aaacrgagag | 240  |
| aaaagaaacc  | aaagccgagg  | aggagctgga | tgccgaagtc | ctggagggtg  | tccacccgac | 300  |
| gcatgagtgg  | caggcccttc  | agccagggca | ggctgtccct | gcaggatccc  | acgtacggct | 360  |
| gaatcttcag  | actggggaaa  | gagaggcaaa | actccaatat | gaggacaagt  | tccgaaataa | 420  |
| tttgaaaggc  | aaaaggctgg  | atatcaacac | caacacctac | acatctcagg  | atctcaagag | 480  |
| tgactgggca  | aaattcaagg  | agggggcaga | gatggagagt | tcaaaggaag  | acaaggcaag | 540  |
| gcaggctgag  | gtaaagcggc  | tcttcgcgcc | cattgaggaa | ctgaagaaag  | actttgatga | 600  |
| gctgaatgtt  | gtcattgaga  | ctgacatgca | gatcatggta | cggctgatca  | acaagttcaa | 660  |
| tagttccagc  | tccagtttgg  | aagagaagat | tgctgcgctc | tttgatcttg  | aatattatgt | 720  |
| ccatcagatg  | gacaatgcgc  | aggacctgct | ttcctttggg | ggcttccaag  | tggtgatcaa | 780  |
| tgggctgaac  | agcacagagc  | ccctcgtgaa | ggagtatgct | gcgtttgtgc  | tgggcgctgc | 840  |
| cttttccagc  | aacccaagg   | tccagggtga | ggccatcgaa | gggggagccc  | tgcagaagct | 900  |
| gctggtcatc  | ctggccacgg  | agcagccgct | cactgcaaa  | aagaagggtcc | tggttgcact | 960  |
| gtgctccctg  | ctgcgccact  | tcccctatgc | ccagcggcag | ttcctgaagc  | tccgggggct | 1020 |
| gcaggctcctg | aggaccttgg  | tgcaggagaa | gggcacggag | gtgctcgccg  | tgcgcgtggg | 1080 |
| cacactgctc  | tacgacctgg  | tcacggagaa | gatgttcgcc | gaggaggagg  | ctgagctgac | 1140 |
| ccaggagatg  | tcccagaga   | agctgcagca | gtatcgccag | gtacacctcc  | tgccaggcct | 1200 |
| gtgggaacag  | ggctgggtgcg | agatcacggc | ccacctcccg | gcgctgcccg  | agcatgatgc | 1260 |
| ccgtgagaag  | gtgctgcaga  | cactgggcgt | cctcctgacc | acctgccggg  | accgctaccg | 1320 |
| tcaggacccc  | cagctcggca  | ggacactggc | cagcctgcag | gctgagtacc  | aggtgctggc | 1380 |
| cagcctggag  | ctgcaggatg  | gtgaggacga | gggctacttc | caggagctgc  | tgggctctgt | 1440 |
| caacagcttg  | ctgaaggagc  | tgagatgagg | ccccacacca | ggactggact  | gggatgccgc | 1500 |
| tagtgaggct  | gaggggtgcc  | agcgtgggtg | ggcttctcag | gcaggaggac  | atcttggcag | 1560 |
| tgctggcttg  | gccattaaat  | ggaaacctga | aggccaaaaa | aaaaaaaaaa  | aaaaaaaaaa | 1620 |
| aaaa        |             |            |            |             |            | 1624 |

<210> 171  
 <211> 2003  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1961)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1999)  
 <223> n equals a,t,g, or c

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 171   |            |            |             |            |             |     |
| ggcacgagcc  | agcttgcagg | aggaatcggg | gaggtcctgt  | cctgaggctg | ctgtccgggg  | 60  |
| ccggtggctg  | ccctcaagg  | cccttcocct | gctgctggg   | ttgccattgc | ttcttgctg   | 120 |
| ttctggcatc  | aggcacctgg | attgagttgc | acagctttgc  | tttatccggg | cttctgtgca  | 180 |
| gggcccggct  | gggtcccca  | tctgcacatc | ctgaggacag  | aaaaagctgg | gtcttgctgt  | 240 |
| gccctcccag  | gcttagtgtt | ccctccctca | aagactgaca  | gccatcgttc | tgcacggggc  | 300 |
| ttttotgcatg | tgacgccagc | taagcatagt | aagaagtcca  | gcctaggaag | ggaaggattt  | 360 |
| tggaggtagg  | tggctttggg | gacacactca | cttctttctc  | agcctccagg | acactatggc  | 420 |
| ctgttttaag  | agacatctra | tttttctaaa | gggtgaattct | cagatgatag | gtgaacctga  | 480 |
| gttgacagata | taccaacttc | tgcttgtatt | tcttaaatga  | caaagattac | ctagctaaga  | 540 |
| aacttcttag  | ggaactaggg | aacctatgtg | ttccctcagt  | gtggtttctc | gaagccagtg  | 600 |
| atatgggggt  | taggatagga | agaactttct | cggtaatgat  | aaggagaatc | tcttgtttcc  | 660 |
| tcccacctgt  | gttgtaaaga | taaactgacg | atatacaggc  | acattatgta | aacatacaca  | 720 |
| cgcaatgaaa  | ccgaagcttg | gcggcctggg | cgtgggtctg  | caaaatgctt | ccaaagccac  | 780 |
| cttagcctgt  | tctattcagc | ggcaacccca | aagcacctgt  | taagactcct | gaccccccaag | 840 |

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| tggeatgcag  | cccccatgcc | caccgggacc  | tggtcagcac | agatcttgat | gacttccctt  | 900  |
| tctagggcag  | actggggagg | tatccaggaa  | tcggcccttg | ccccacgggc | gttttcatgc  | 960  |
| tgtacagtga  | cctaaagtgt | gtaagatgtc  | ataatggacc | agtcacatgt | atcttcagtat | 1020 |
| atacaactcc  | accagacccc | tccaacccat  | ataacacccc | acccctgttc | gcttcctgta  | 1080 |
| tggtgatatc  | atatgtaaca | tttactcctg  | tttctgctga | ttgttttttt | aatgttttgg  | 1140 |
| tttgtttttg  | acatcagctg | taatcattcc  | tgtgctgtgt | tttttattac | ccttggtagg  | 1200 |
| tattagactt  | gcactttttt | aaaaaaaggt  | ttctgcatcg | tggaagcatt | tgacccagag  | 1260 |
| tggaacgcgt  | ggcctatgca | ggtggattcc  | ttcaggtctt | tcctttgggt | ctttgagcat  | 1320 |
| ctttgcttcc  | attcgtctcc | cgtctttggg  | tctccagttc | aaattattgc | aaagtaaagg  | 1380 |
| atctttgagt  | aggttcgggt | tgaaagggtg  | ggcctttata | tttgatccac | acacgttggg  | 1440 |
| cttttaaccg  | tgctgagcag | aaaacaaaac  | aggttaagaa | gagccgggtg | gcagctgaca  | 1500 |
| gaggaagccg  | ctcaaatacc | ttcacaataa  | atagtggcaa | tatatatata | gttcaagaag  | 1560 |
| gctctccatt  | tggeatcggt | taattttatat | gttatgttct | aagcacagct | ctcttctcct  | 1620 |
| attttcatcc  | tgcaagcaac | tcaaaatatt  | taaaataaag | tttacattgt | agttattttc  | 1680 |
| aaatctttgc  | ttgataagta | ttaagaaata  | ttggacttgc | tgccgtaatt | taaagctctg  | 1740 |
| ttgattttgt  | ttcggtttgg | atttttgggg  | gaggggagca | ctgtgtttat | gctggaatat  | 1800 |
| gaagtctgag  | accttccggg | gctgggaaca  | cacaagagtt | gttgaaagtt | gacaagcaga  | 1860 |
| ctgcgcgatgt | ctctgatgct | ttgtatcatt  | cttgagcaat | cgctcggtcc | gtggacaata  | 1920 |
| aacagtatta  | tcaaagagaa | aaaaaaaaaa  | aaaaaactcg | nggggggggc | cggtacccaa  | 1980 |
| ttcgccctat  | agtgagccna | ttc         |            |            |             | 2003 |

&lt;210&gt; 172

&lt;211&gt; 786

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 172

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ggcacagcgg | cacgagaaga | ctttggtggt  | taagagatta | atgtgttagc | cagaacaact | 60  |
| catttctcta | ccmgtgtgta | gtccattttat | ctttaaagat | tttctattgg | aataattttg | 120 |
| aaattacttt | cttagttttc | ttcatttaaaa | actaagaaaa | tgctttgttt | attatgaatt | 180 |
| gctatttctc | ttgattatta | ttcttgga    | aagtctatca | gacgtaattc | ttctgatttg | 240 |
| cttctaggct | agaggaaaat | gtgaaagatg  | acaaatgaaa | atctcaaagg | ttgtcagtag | 300 |
| tatgacttct | tttatcggtt | gtcattatca  | caaatatata | aacataggac | ttttaaaaga | 360 |
| tattttgtac | atattggggc | ttagtaggat  | tttgcattga | tttttttttt | cttttatgcc | 420 |
| cagagagaaa | gagcaaagaa | ataaccaagg  | gtgatgtact | cgtattgaag | gtttacccaa | 480 |
| taaggactgc | ttttatttat | aactatagtc  | tatatcttaa | gtaaatcaat | ttttctatta | 540 |
| tgtgtttttt | gttctctgag | gcaagatctc  | tgaactttat | gcagagggtt | cttttaaaaa | 600 |
| aacaaagtgt | aattttttta | tttcttgga   | tatttttttt | cattgatttc | tccaagtag  | 660 |
| agcagattca | aattctcttt | gtaccctatg  | tcttttttgt | tttgcattta | gctcagtatt | 720 |
| ccgtttctac | attttctctt | cctagaacca  | gtcaataaat | gacaaaaaaa | aaaaaaaaaa | 780 |
| actcga     |            |             |            |            |            | 786 |

&lt;210&gt; 173

&lt;211&gt; 1758

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 173

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| gggacgagcc | ctgcccacct | cctgcagcct | cctgcgcccc | gccgagctgg  | cggtatggagc | 60  |
| tgccgcacgg | gagcgtgggc | agccaggcgg | tgccgcggag | gatggatggg  | gacagccgag  | 120 |
| atggcgggcg | cggcaaggac | gccaccgggt | cggaggacta | cgagaacctg  | ccgactagcg  | 180 |
| cctccgtgtc | caccacatg  | acagcaggag | cgatggccgg | gatcctggag  | cactcgggtca | 240 |
| tgtaccgggt | ggactcgggt | aagacacgaa | tgcaagattt | gagtcacgat  | cccaaagccc  | 300 |
| agtacacaag | tatctacgga | gccctcaaga | aaatcatgcg | gaccgaagct  | tctggaggcc  | 360 |
| cttgcgaggc | gtcaacgtca | tgatcatggg | tgccggggcc | gcccattgcca | tgtattttgc  | 420 |
| ctgctatgaa | aacatgaaaa | ggacttttaa | tgacgttttc | caccaccaag  | gaaacagcca  | 480 |

|            |             |             |            |             |            |      |
|------------|-------------|-------------|------------|-------------|------------|------|
| cctagccaac | ggtatTTTTga | aagcgtttgt  | ctggagttag | aaagttctct  | tcttcaacac | 540  |
| gtccctcccc | aggggtgtcc  | tccctgtgac  | ccagccgcct | cgacttcggc  | cgccttgctc | 600  |
| acgaataaag | aactcagagt  | tgtgtgtgca  | atgcacaccc | agacacacgc  | acgcacacac | 660  |
| acgcgcgcgc | acacacatgc  | ttttttctgt  | tccctccgc  | tttctgaagc  | ctggggagaa | 720  |
| atcagtgaca | gaggtgtttt  | ggtttttattg | ttatgtgggt | tttcttttct  | attttttttg | 780  |
| tttgttttgt | ttttaaacat  | tcaaaagcaa  | ttaatgatca | gacataggag  | aaaccctgaa | 840  |
| tagaaacaaa | acttttgaat  | gctggattca  | aaaaaaaaa  | aaagtatatct | ggacagcttc | 900  |
| tttgagacta | tttaaaaact  | ggtacaacag  | gtctctacaa | cgccaagatc  | taactaagct | 960  |
| ttaaaaggtc | aagaagtttt  | atgggtgaca  | aaggactcgc | gcaacgcaga  | aggcctttcc | 1020 |
| caccttaagc | ttccggggat  | ctgggaattt  | tacccccatt | ctcttctgtt  | tgtctgagtc | 1080 |
| tcatctctct | gcaagcaagg  | gctgaaatca  | ttttgtttgg | ttgttttgag  | ggagagaggc | 1140 |
| ggggtggggg | ggtgcaaate  | tgccagcagc  | tcttacgtaa | ggcatgtttt  | attggggagg | 1200 |
| gctgagcttt | tattttctcc  | tctccagtgg  | ggttggcttt | tattgtttct  | tgtctgggtt | 1260 |
| tggaatggaa | atatggatag  | cagcataaag  | tacttttatt | tgcacaaaat  | tcattttttt | 1320 |
| caacaatgga | gacatagatt  | tgacccacaa  | taacttctcc | ccctctcttt  | ttactctgct | 1380 |
| caaaaagcat | ctctctctcc  | attacccaac  | cttggtcata | agtgtgcctg  | gctggtttgc | 1440 |
| agatatttgt | tctgctttgt  | aaaaattggc  | cattagtgc  | tttattgaga  | tgatctctaa | 1500 |
| agagctatgc | cctgacctac  | ccctgattct  | atgacattgg | ggcccttctt  | ttgctgaaac | 1560 |
| tgctttacgt | aatgggttta  | ctcttgaaa   | gagatttgac | ggaatccatt  | ttatgccaa  | 1620 |
| tgctgacctg | cactgtttct  | gcaatatgtg  | gtgtatgctg | tggatgactt  | gctgggaatg | 1680 |
| attataagtg | tgtgtgtgtg  | gggggagtg   | gtattacatg | cattgctgaa  | gagtcaaaaa | 1740 |
| aaaaaaaaa  | aaactcga    |             |            |             |            | 1758 |

&lt;210&gt; 174

&lt;211&gt; 1369

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

|             |            |             |            |            |            |      |
|-------------|------------|-------------|------------|------------|------------|------|
| ggagccttgg  | tggaattctg | catcatcatc  | tccctttttt | tttttttttt | tttttttttt | 60   |
| tttttccctc  | gggattatat | cagaatacaa  | ctgaatgagc | gattgggttg | atcccgata  | 120  |
| actgtgtcca  | tgggttatag | tagaatcttg  | gccacatggg | agactgctat | tagctactgg | 180  |
| aggtgctgct  | ggtaaagcag | gtgtaaaaga  | aggcctcact | ggggactgct | ggaagctggt | 240  |
| cccagaaaaga | tttccatgtc | cctgcttcac  | agaagaaaaa | tttgggcttc | caacagggat | 300  |
| tgatggtgaa  | tcaggaacaa | atgaaggagg  | gcctacctgc | cttcgctcat | tagtctgcat | 360  |
| gaaagtttgg  | gtggagggtg | aattaattga  | tccctgttgt | atattctgct | gctgtaaaac | 420  |
| ctgccccatt  | tgtgtttggt | gttgtggaga  | ctgctgaagg | ggtcctagag | gttgcataaa | 480  |
| atcacaaggt  | aagtcggaac | tgtagaagg   | aatctgggac | acagatgtcc | tactactact | 540  |
| tatctcagag  | cccaccatac | catgctgctc  | catttccatc | ctctgctgca | aagctctttg | 600  |
| tctatctacc  | tctgcatga  | gttggatccg  | ttgtctctct | tgctgttctc | gtaaacgttc | 660  |
| cttacgttcc  | cgttcttgaa | aactttcact  | aaagggattg | ttgtcatcaa | attctaccgc | 720  |
| aggtggtgks  | tactctgtg  | gatttgcatt  | tgagactgtc | cctggggctg | gtgtacaagc | 780  |
| ttttattggc  | aactgggcaa | ttgggggctg  | aattctagga | ggattgagg  | gcaggtgggc | 840  |
| agragcactg  | ttgggttgcc | atccaggtaa  | actgggcatt | ctaacagggc | tagtatggcc | 900  |
| agaaataact  | gttgtgtgct | gctgggtgctg | aagctgctgt | ggcaccatgg | gaaaggtggg | 960  |
| ttggctcatg  | gtgggtggag | tggaacctgg  | aattaggggt | ggctggggct | ggacactggg | 1020 |
| catcatggta  | ggtggggcca | ttgcacattg  | ctgctgctgt | ttgatccgat | aatcttcaat | 1080 |
| caattcagca  | tgttctttct | gttgtttacg  | aatctgttct | agctgtttct | gaaccatgct | 1140 |
| ttgctgttca  | gtaacatgct | tgagttgttc  | tgcactcttc | tctggaaatt | cacgccagc  | 1200 |
| tttcttggca  | gtacgttgtt | tagctgaaag  | ggccttctta | gattttctgt | gagcaccaat | 1260 |
| ttgttcttca  | agatacttct | gctgcatttg  | aagcagctgt | tgggtctcct | ggrgccactc | 1320 |
| ttcatactgc  | ttacgtgtg  | aatcattgac  | aaagocggga | ccaaaattt  |            | 1369 |

&lt;210&gt; 175

&lt;211&gt; 2379

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1881)

<223> n equals a,t,g, or c

<400> 175

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| ggcagagcta  | gtgtggactc  | catccccctg  | gagtggggatc | acgnctatga | cctcagtcgg  | 60   |
| gacctggagt  | ctgcaatgtc  | cagagctctg  | ccctctgagg  | atgaagaagg | tcaggatgac  | 120  |
| aaagatttct  | acctccgggg  | agctgttgsc  | ttatcagggg  | accacagtgc | cctagagtca  | 180  |
| cagatccgac  | aactggggcaa | agcctggatg  | atagccgctt  | tcagatacag | caaaccgaaa  | 240  |
| atatcattcg  | cagcaaaaact | cccacggggc  | cggagctaga  | caccagctac | aaaggctaca  | 300  |
| tgaaaactgct | gggcgaatgc  | agtagcagta  | tagactccgt  | gaagagactg | gagcacaac   | 360  |
| tgaaggagga  | agaggagagc  | cttctctggct | ttgttaacct  | gcatagtacc | gaaacccaaa  | 420  |
| cggctgggtgt | gattgaccga  | tgggagcttc  | tccaggccca  | ggcattgagc | aaggagtga   | 480  |
| ggatgaagca  | gaacctccag  | aagtggcagc  | agcttaactc  | agacttgaac | agcatctggg  | 540  |
| cctggctggg  | ggacacggag  | gaggagtgtg  | aacagctcca  | gcgtctggaa | ctcagcactg  | 600  |
| acatccagac  | catcgagctc  | cagatcaaaa  | agctcaagga  | gctocagaaa | gctgtggacc  | 660  |
| accgcaaagc  | catcatcctc  | tccatcaatc  | tctgcagccc  | tgagttcacc | caggctgaca  | 720  |
| gcaaggagag  | ccgggacctg  | caggatcgct  | tgtsgcagat  | gaatggggcg | tgggaccgag  | 780  |
| tgtgctctct  | gctggaggag  | tggcggggcc  | tgctgcagga  | tgccctgatg | cagtgccagg  | 840  |
| gtttccatga  | aatgagccat  | ggtttgcttc  | ttatgctgga  | gaacattgac | agaaggaaaa  | 900  |
| atgaaattgt  | ccctattgat  | tctaaccttg  | atgcagagat  | acttcaggac | catcacaaac  | 960  |
| agcttatgca  | aataaagcat  | gagctgttgg  | aatcccaact  | cagagtagcc | tctttgcaag  | 1020 |
| acatgtcttg  | ccaactactg  | gtgaatgctg  | aaggaaacaga | ctgtttagaa | gccaaagaaa  | 1080 |
| aagtccatgt  | tattggaaat  | cggctcaaac  | ttctcttgaa  | ggaggtcagt | cgtcatatca  | 1140 |
| aggaactgga  | gaagttatta  | gacgtgtcaa  | gtagtcagca  | ggatttctct | tcctggctct  | 1200 |
| ctgctgatga  | actggacacc  | tcagggtctg  | tgagtcccay  | atcaggaagg | agcaccccaa  | 1260 |
| acagacagaa  | aacgccacga  | ggcaagtgtg  | gtctctcaca  | gcctggaccc | tctgtcagca  | 1320 |
| gtccacatag  | cagggtccaca | aaagggtggc  | ccgattcctc  | cctttctgag | ccargggccag | 1380 |
| gtcgggtccg  | ccgcggtctc  | ctgttcagag  | tcctccgagc  | agctcttccc | cttcagcttc  | 1440 |
| tcctgctcct  | cctcatcggg  | cttgccctgcc | tcgtaccaat  | gtcagaggaa | gactacagct  | 1500 |
| gtgccctctc  | caacaacttt  | gcccggtcat  | tccaccccat  | gctcagatac | acgaatggcc  | 1560 |
| ctcctccact  | ctgaactaag  | cagatgccat  | ctgcagaagt  | gctggtagca | taaggaggat  | 1620 |
| cgggtcataa  | gcaatcccaa  | actaccaaca  | agaggacctt  | gatcttggcg | aaagccmtcg  | 1680 |
| gtgtggcagc  | tttagccctc  | tccagatcac  | atgtgtgcaa  | attatggctt | cagagggtgga | 1740 |
| agataaacag  | tgacggggga  | acaaacagac  | aacaagaagg  | tttggaagaa | atctggtttg  | 1800 |
| agactctgaa  | ccttagcact  | aaggagattg  | agtaaggacc  | tccaaagttc | cccggactca  | 1860 |
| tgaattcttg  | gcccttgccc  | nattctgtgc  | acagccaagg  | acttcagtag | accatctggg  | 1920 |
| cagctttccc  | atggtgctgc  | tccaaccatc  | agataaatga  | ccctcccaag | caccatgtca  | 1980 |
| gtgtcgtaca  | atctaccaac  | caaccagtgc  | tgaagagatt  | ttagaacctt | gtaacataca  | 2040 |
| atttttaaga  | gcttatatgg  | cagcttcctt  | tttaacctgt  | tttcttttgg | ggcatgatgt  | 2100 |
| tttaaccttt  | gctttagaag  | cacaagctgt  | aaatctaaaa  | ggcacttttt | tttagaggta  | 2160 |
| taaagaaaaa  | ctagatgtaa  | taaataagat  | catgggaaggc | tttatgtgaa | aaaagttgaa  | 2220 |
| tgttatagta  | aaaaaaaaag  | atatctatgt  | atgtacagtt  | tgctaaagcc | aagttttgtt  | 2280 |
| tgtattgatt  | tctttgcatt  | tattatagat  | attataaaat  | aaaaaaaaaa | aaaaaaaaaac | 2340 |
| tcgagggggg  | gcccggtacc  | caattcgccc  | tatagttag   |            |             | 2379 |

<210> 176

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (407)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1331)

<223> n equals a,t,g, or c

<400> 176

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| ggcgccttcac | gatgccggcg  | gtcagtggtc | cagggtccctt | attctgcctt | ctcctcctgc  | 60   |
| tcctggaccc  | ccacagccct  | gagacggggt | gtcctcctct  | acgcagggtt | gagtacaagc  | 120  |
| tcagcttcaa  | aggcccaagg  | ctggcattgc | ctggggctgg  | aatacccttc | tggagccatc  | 180  |
| atggagggtga | ggggcagggg  | tggggaccgc | tatgcccagg  | gtccctcaaa | gtgctggagg  | 240  |
| ggctgtract  | tgggtggggag | tgggtctgtc | acagccatcc  | tctgtccagg | gtggggcaag  | 300  |
| gcctgggaca  | gtgccaggca  | ccccaggacc | ccttcagggc  | ctgtctcctg | ctccaccgcc  | 360  |
| tcaacacccc  | ccaccctgc   | ccaagctgtt | tctcctctgc  | ctctctnntt | ccctgccccca | 420  |
| ggactttctct | cttctcctct  | gcctctcctt | ggacccctgc  | ccttcctcta | cctctgacct  | 480  |
| gtgaacacac  | agacacatgc  | tcacacacta | agtcccargc  | acacmsaaag | gcaatgtgga  | 540  |
| ccagcacaaa  | cctccactct  | cccggctcca | tcccargcgg  | cctgtggctg | gccatgaaaa  | 600  |
| ctgggggcta  | cctggaggga  | agcatcctca | tcccagggtga | gtggggacca | gcccctccct  | 660  |
| gtatgtgtgt  | tgtgggtgga  | agcaggcatg | agagcatctt  | agcccatagg | tttgtattca  | 720  |
| gggactttcca | aaccagacc   | tacaaagagt | gtgtcttcta  | ccagatcttg | ttcaaaaaag  | 780  |
| gggtttgtgat | gatggaacta  | cacgatagag | ggagtggagca | agaacaatga | ggattagagt  | 840  |
| ggagcgtgaa  | atagtctagg  | agcatggctt | ccaaaacata  | tgctgtgagg | tctgtccacc  | 900  |
| tgagagttag  | gccatggatt  | taattctgag | cctcttagca  | ggcaaagcaa | agacagaaaag | 960  |
| cagatcggct  | gtggatttct  | gtctataaaa | tgtgagttct  | tggccgggtg | cggtgggtca  | 1020 |
| cgctgtaat   | cccggcgctt  | tgggaggcca | gggcggatgg  | gtcgcgaggt | caggaggttg  | 1080 |
| gaaaccatcc  | tggccggaat  | ggtgaagccc | tgactctact  | agaagtgcaa | agattggctg  | 1140 |
| ggtgtgggtg  | cgtgcgcctg  | tgggtccagc | ttctcgggag  | gctgaggcgg | gagagttgct  | 1200 |
| tgggcctggg  | aggccgaggt  | tgcggtgagc | tgagatcctg  | ccattgcact | tcagcctggg  | 1260 |
| cacagagcca  | gactctggct  | caaaaaaaaa | aaaaaaaaaa  | actcgagggg | ggcccgtacc  | 1320 |
| caattcgccg  | natatgatcg  | taaacaat   |             |            |             | 1348 |

<210> 177

<211> 1502

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (470)

<223> n equals a,t,g, or c



<220>  
 <221> SITE  
 <222> (1024)  
 <223> n equals a,t,g, or c

<400> 177

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| ctcaaaataa  | ataaataaat  | aaaaatttct | attccattga  | tttgggtaga  | caccaggaat  | 60   |
| gtgcatttct  | aacaagcttt  | ccaggcgatc | ctatagtaag  | tcattctgtg  | actactttaa  | 120  |
| gaaactcttc  | tatagagaat  | ggagttggat | taataatagg  | tgatttttta  | caactggactg | 180  |
| attcacaaga  | acctaatacag | tagtccatga | agctgctcat  | ctgtggtaac  | tatttggccc  | 240  |
| cgtctcactc  | tgaaagcagc  | aggagatgtt | gtttactttg  | tttctatccc  | ctttgtctgg  | 300  |
| agattaattt  | tggaatgaaa  | gtttttctct | ctatgocatt  | cctggttctt  | ttccaaagcc  | 360  |
| tcatacaaga  | ggatttaggtc | acaatgcacg | cattaccttt  | taaaagaatg  | cgatattgat  | 420  |
| accgatgctt  | actttttttt  | tttttnacta | cttgttttat  | tccttccagn  | aaagtatagc  | 480  |
| ccgcctttct  | atagcatagt  | tctctttagg | tggaatgatt  | cctataagat  | ttctcattat  | 540  |
| taaatcatgc  | atttttcaag  | atggaatcaa | tmrttgattt  | aatctaagct  | gatattctca  | 600  |
| tttggttagaa | gaacaacctc  | catgctagag | agagaggagg  | aaatataccc  | acgaccacac  | 660  |
| agccagtttag | tatccagttg  | gtgctggact | ccagccaggt  | gtcctgcctc  | atggtagtta  | 720  |
| aatgatatat  | agaaaaggta  | aattttttaa | gaaatattta  | ttaatatatt  | cctataaaaac | 780  |
| attttaaaagg | taaccacata  | aaaatgggta | atttttccat  | ttccaaagtaa | atgctaagca  | 840  |
| tgtrttattaa | tgaagcagta  | cttctgatta | gtatatgaca  | ttctgaagtc  | aattaaactc  | 900  |
| attgcactaa  | atgtgtcttc  | cttggtatag | tggaggattt  | gaggattgga  | atatagagta  | 960  |
| gagtgccttg  | ttaagcctgg  | gagcccatct | ttatagctat  | ttgatgtaag  | aaaagagaca  | 1020 |
| tggncatttt  | ctaaactata  | taaggtgagt | gtgtctatct  | ccagcagata  | taaaggaaaa  | 1080 |
| aggaaacttt  | tttgattccc  | accttcccag | cctcacctag  | ccatcttcca  | gcctcaataa  | 1140 |
| tagagatggt  | agtgcagggt  | cctgggctct | agggtgatcat | ttcataagtc  | ctttacagat  | 1200 |
| aaagaaaaaag | tagtggttgt  | atgtttgttt | ttaagtaacc  | ccaaaacaaa  | tttatattgt  | 1260 |
| attcagcaaa  | attggaattc  | agggtgttaa | ttttagaaca  | tgaagtgcct  | gctgttttaa  | 1320 |
| gcattgacct  | gtataaaaaag | aattgcatgt | ctccagtaag  | cttatgggtt  | ttctcatctt  | 1380 |
| taggtatatg  | gcttttaatc  | atgtaaaagt | aaacattagt  | tttcttgcat  | tttattacag  | 1440 |
| gttcttttgt  | gcaataaaga  | tgctgctgaa | attaattgaa  | aaaaaaaaaa  | aaaaaaactc  | 1500 |
| ga          |             |            |             |             |             | 1502 |

<210> 178  
 <211> 1637  
 <212> DNA  
 <213> Homo sapiens

<400> 178

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| attttctagc  | ccacaaggac  | tgaagttcag  | atccaaaagt | tcacttgcta | attatcttca  | 60   |
| caaaaatgga  | gagacttctc  | ttaagccaga  | agattttgat | tttactgtac | tttctaaaaag | 120  |
| gggtatcaag  | tcaagatata  | aagactgcag  | catggcagcc | ctgacatccc | atctacaaaa  | 180  |
| ccaaagtaac  | aattcaaact  | ggaacctcag  | gaccogaagc | aagtgcacaa | aggatgtggt  | 240  |
| tatgcgcgca  | agtagtagtc  | cagagttgca  | ggagagcaga | ggactctcta | actttacttc  | 300  |
| cactcatttg  | cttttgaaag  | aagatgaggg  | tggtgatgat | gttaacttca | gaaaggctag  | 360  |
| aaagcccaaa  | ggaaagggtga | ctattttgaa  | aggaatccca | attaagaaaa | ctaaaaaagg  | 420  |
| atgttaggaag | agctgttcag  | gttttgttcm  | aagtgatagc | aaaagagaat | ctgtgtgtaa  | 480  |
| taaagcagat  | gctgaaagt   | aacctgtgac  | acaaaaaagt | cagcttgata | gaactgtctg  | 540  |
| catttctgat  | gctggagcat  | gtggtgagac  | cctcagtggt | accagtgaag | aaaacagcct  | 600  |
| tgtaaaaaaa  | aaagaaagat  | cattgagttc  | aggatcaaat | ttttgttctg | aacaaaaaac  | 660  |
| ttctggcatc  | ataaacaat   | tttgttcagc  | caaagactca | gaacacaacg | agaagtatga  | 720  |
| ggataccttt  | ctagaatctg  | aagaaatcgg  | aacaaaagta | gaagtgtgtg | aaaggaaaga  | 780  |
| acatttgcat  | actgacattt  | taaaacgtgg  | ctctgaaatg | gacaacaact | gctcaccaac  | 840  |
| caggtaagac  | ttcactgaag  | ataccatccc  | acggaacaca | gatagaaaga | aggaaaaaca  | 900  |
| gcctgtattt  | ttccagcaaa  | tataacaaaag | aagctcttag | ccccccacga | cgtaaagcct  | 960  |
| ttaagaaatg  | gacacctcct  | cggtcacctt  | ttaatctctg | tcaagaaaca | ctttttcatg  | 1020 |
| atccatggaa  | gcttctcatc  | gctactatat  | ttctcaatcg | gacctcaggc | aaaatggcaa  | 1080 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| tacctgtgct | ttggaagttt | ctggagaagt | atccttcagc | tgaggtagca | agaaccgcag | 1140 |
| actggagaga | tgtgtcagaa | cttctttaa  | ctcttggtct | ctacgatctt | cgggcaaaaa | 1200 |
| ccattgtcaa | gttctcagat | gaatacctga | caaagcagtg | gaagtatcca | attgagcttc | 1260 |
| atgggattgg | tgcacctga  | agaccacaaa | ttaaataaat | atcatgactg | gctttgggaa | 1320 |
| aatcatgaaa | aattaagtct | atcttaaact | ctgcagctct | caagctcatc | tgtratgcat | 1380 |
| agctttgcac | ttcaaaaaag | cttaattaag | tacaaccaac | cacctttcca | gccatagaga | 1440 |
| ttttaattag | cccaactaga | agcctagtgt | gtgtgcttcc | ttaatgtgtg | tgccaatggg | 1500 |
| ggatctttgc | tactgaatgt | gtttgaacat | gttttgagat | ttttttaaaa | taaattatta | 1560 |
| tttgacaaca | atccaaaaaa | aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | 1620 |
| aaaaaaaaa  | aaaaaaa    |            |            |            |            | 1637 |

&lt;210&gt; 179

&lt;211&gt; 2911

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (622)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 179

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| ggtgggtttt  | gttctgcaat  | aggcggctta | gagggagggg  | ctttttcgcc  | tatacctact  | 60   |
| gtagcttctc  | cacgtatgga  | ccctaaaggc | tactgctgct  | actacggggc  | tagacagtta  | 120  |
| ctgtctcagc  | tctaggatgt  | gcgttcttcc | actagaagct  | cttctgaggg  | aggtaattaa  | 180  |
| aaaacagtgg  | aatggaaaaa  | cagtgtctga | gtcatcctgt  | aatatgctcc  | ttgtcaacaa  | 240  |
| tgtatacatt  | cctgctaggt  | gccatattca | ttgctttaag  | ctcaagtgcg  | atcttactag  | 300  |
| tgaagtattc  | tgccaatgaa  | gaaaacaagt | atgattatct  | tccaactact  | gtgaatgtgt  | 360  |
| gctcagaact  | ggtgaagcta  | gttttctgtg | tgcttgtgtc  | attctgtgtc  | ataaagaaag  | 420  |
| atcatcaaa   | tagaaaattg  | aaataatgct | cctggaaagga | attctctgat  | ttcatgaagt  | 480  |
| ggtccattcc  | tgcccttctt  | tatttctctg | ataaactgat  | tgtctcttat  | gtcctgtcct  | 540  |
| atcttcaacc  | agccatggct  | gttatcttct | caaattttag  | cattataaca  | acagctcttc  | 600  |
| tattcaggat  | agtgtctga   | angcgtctaa | actggatcca  | gtgggcttcc  | ctcctgactt  | 660  |
| tatttttgtc  | tattgtggcc  | ttgactgccg | ggactaaaac  | tttacagcac  | aacttggcag  | 720  |
| gacgtggatt  | tcatcacgat  | gcctttttca | gcccttccaa  | ttcctgcctt  | cttttcagaa  | 780  |
| atgagtgtcc  | cagaaaagac  | aattgtacag | caaaggaatg  | gacttttctt  | gaagctaaat  | 840  |
| ggaacaccac  | agccagagtt  | ttcagtcaca | tccgtcttgg  | catgggccat  | gttcttatta  | 900  |
| tagtccagtg  | ttttatttct  | tcaatggcta | atatctataa  | tgaaaagata  | ctgaagggaag | 960  |
| ggaaccagct  | cactgaargc  | atcttcatac | agaacagcaa  | actctatttc  | tttggcattc  | 1020 |
| tgtttaaatg  | gctgactctg  | ggccttcaga | ggagtaaccg  | tgatcagatt  | aagaactgtg  | 1080 |
| gattttttta  | tgccacagct  | gcattttcag | tagcccttat  | ttttgtaact  | gcattccagg  | 1140 |
| gcctttcagt  | ggcttttcatt | ctgaagttcc | tggataacat  | gttccatgtc  | ttgatggccc  | 1200 |
| aggttaccac  | tgtcattatc  | acaacagtgt | ctgtcctggt  | ctttgacttc  | aggccctccc  | 1260 |
| tgggaatttt  | cttggaaagc  | ccatcagtc  | ttctctctat  | atttatttat  | aatgccagca  | 1320 |
| agcctcaagt  | tccggaatac  | gcacctaggc | aagaaaggat  | ccgagatcta  | agtggcaatc  | 1380 |
| tttgggagcg  | ttccagtggt  | gatggagaag | aactagaaag  | acttaccaaa  | ccaagagtg   | 1440 |
| atgagtcaga  | tgaagatact  | ttctaactgg | taccacata   | gtttgcagct  | ctcttgaacc  | 1500 |
| ttattttcac  | attttcagtg  | tttgtaatat | ttatcttttc  | actttgataa  | accagaaatg  | 1560 |
| ttttctaaatc | ctaataattct | ttgcataat  | ctagctactc  | cctaaatggg  | tccatccaag  | 1620 |
| gotttagagta | cccaaaggct  | aagaaattct | aaagaactga  | tacaggagta  | acaatatgaa  | 1680 |
| gaattcatta  | atatctcagt  | acttgataaa | tcagaaagtt  | atatgtgcag  | attattttcc  | 1740 |
| ttggccttca  | agcttccaaa  | aaacttgtaa | taatcatgtt  | agctatagct  | tgtatataca  | 1800 |
| catagagatc  | aatttgccaa  | atattcacaa | tcatgtagtt  | ctagtcttaca | tgccaaagtc  | 1860 |
| ttcccttttt  | aacattataa  | aagctaggtt | gtctcttgaa  | ttttgaggcc  | ctagagatag  | 1920 |
| tcatttttga  | agtaaagagc  | aacgggaccc | tttctaaaaa  | cgttggttga  | aggacctaaa  | 1980 |
| tacctggcca  | taccatagat  | ttgggatgat | gtagtctgtg  | ctaaaatatt  | tgtctgaagaa | 2040 |
| gcagttcttc  | agacacaaca  | tctcagaatt | ttaattttta  | gaaattcatg  | ggaaatttga  | 2100 |

|             |            |             |             |             |            |      |
|-------------|------------|-------------|-------------|-------------|------------|------|
| tttttgtaat  | aatcttttga | tgtttttaaac | attgggttccc | tagtcaccat  | agttaccact | 2160 |
| tgtatttttaa | gtcattttaa | caagccacgg  | tggggctttt  | ttctcctcag  | cttgaggaga | 2220 |
| aaaatcttga  | tgtcattact | cctgaattat  | tacatttttg  | agaataagag  | ggcattttat | 2280 |
| tttattagtt  | actaattcaa | gctgtgacta  | ttgtatatct  | ttccaagagt  | tgaaatgctg | 2340 |
| gcttcagaat  | cataccagat | tgtcagtgaa  | gctgatgcct  | aggaactttt  | aaagggatcc | 2400 |
| tttcaaaaagg | atcacttagc | aaacacatgt  | tgacttttaa  | ctgatgtatg  | aatattaata | 2460 |
| ctctaaaaaat | agaaagacca | gtaatatata  | agtcacttta  | cagtgcctact | tcacacttaa | 2520 |
| aagtgcattg  | tatttttcat | ggatattttg  | atgcagccag  | ttaactctcg  | tagatagaga | 2580 |
| agtcaggtga  | tagatgatat | taaaaattag  | caaacaaaag  | tgacttgctc  | agggtcattg | 2640 |
| agctgggtga  | tgatagaaga | gtggggctta  | actggcaggc  | ctgtatgttt  | acagactacc | 2700 |
| atactgtaaa  | tatgagcttt | atgggtgtcat | tctcagaaac  | ttatacattt  | ctgctctcct | 2760 |
| ttctcctaag  | tttcatgcag | atgaatataa  | ggtaatatat  | tattatataa  | ttcatttgtg | 2820 |
| atatccacaa  | taatatgact | ggcaagaatt  | ggtggaaaat  | tgtaattaaa  | ataattatta | 2880 |
| aacctaaaaa  | aaaaaaaaaa | aaaaactcga  | g           |             |            | 2911 |

<210> 180  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| <400> 180   |             |            |            |            |             |     |
| ggcagcagcc  | ccaggccagc  | cagggccagg | cctacttttg | ccacccttaa | attagaatgt  | 60  |
| gggggtcaggg | gtcacagaaa  | agccatttct | ctgacctagt | gtttggcgtc | cgggaaactct | 120 |
| gtgcccaccc  | ttcagaccct  | ggcagtcctc | actgaggcca | ttggcccaga | gcccggccatc | 180 |
| ccccgaracc  | ccccgggagcc | gcctgtttgc | acgtccacac | ctgccacacc | ctctgccggg  | 240 |
| ccccagcccc  | ttccaaccgg  | gaccgtgtgt | gtccctgggg | gtcctgcccc | accttgcctt  | 300 |
| ggggaggcat  | gggcccctct  | cctcccaccc | tgccggccgt | cactcacctc | ttgcttcttg  | 360 |
| tccccagggc  | ctagcccttg  | gaaggagaca | ggagtctagg | gaggctgaag | ccactcccg   | 420 |
| gggaggcccg  | tgctcctcca  | gccccaggga | cagcaaggaa | aagagaagag | agcagagcat  | 480 |
| ttcatggctc  | taataaaaaa  | aaaaaaaaaa | aaaactcga  |            |             | 519 |

<210> 181  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (45)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (135)  
 <223> n equals a,t,g, or c

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 181   |            |             |            |            |            |     |
| tcccccttggg | gcccgaaaaa | gccccgttgg  | cctgnccatt | ggttntccat | gcccggccgc | 60  |
| catgccccag  | tactagcctg | cagtcaccaat | gtagcccttc | cctcytcma  | gagcccytcm | 120 |
| aaccgccccg  | stcanttgtg | atttcaggag  | gatttgatga | agatgtttaa | gcgaaagtgg | 180 |
| agaaccttct  | cgggatttcc | agcctggaaa  | aaacggaccc | tgtaggcaa  | gcaccctgca | 240 |

|             |            |             |             |            |             |     |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| gccctccctg  | tccccctctt | cccctcccc   | tcycccgccc  | gtggagacag | ctgttytcag  | 300 |
| cagggctctc  | cgcagggagg | gggcccggctc | cttccctggc  | agcaacatcc | ttgcccttgt  | 360 |
| cacacaagtc  | agcctccatc | tgcgcagctc  | tgtggatgcg  | ctgctggagg | gcaacaggta  | 420 |
| tgtcaactggc | tggttcagcc | cctaccaccg  | ccagcgggaag | ctcatccacc | cggctcatggt | 480 |
| tcagcacatc  | cagcccgcag | cgctcagcct  | cctggcacag  | tggagcacc  | tcgtgcagga  | 540 |
| gctggaggct  | gccctgcagc | tggctttcta  | cccggatgcc  | gtggaggagt | ggctggagga  | 600 |
| aaacgtgcac  | cccagcctgc | agcggctgca  | arctctgctg  | caggacctca | gcgaggtgtc  | 660 |
| tgcccccccg  | ctgccaccca | ccagccctgg  | cagggacgtt  | gctcaggacc | cctgagggga  | 720 |
| gagctcatgc  | cagggggctc | ctgctggagg  | ctgggggggc  | tctgcwytky | cwwwtgccct  | 780 |
| gggcaatacg  | gcccacgtgg | gcgtcgtgcc  | ctctggccca  | gcagtgtctt | gcccacactc  | 840 |
| agttcctgag  | ggccctgggc | agccctctgg  | ggagagacta  | gaaaacacag | aaggaagcag  | 900 |
| cacagggaga  | ccgcctttgt | gatctgcacg  | tgtgacactg  | attcttttga | aataaagagt  | 960 |
| ggaagctg    |            |             |             |            |             | 968 |

&lt;210&gt; 182

&lt;211&gt; 1128

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

|             |            |             |             |            |             |      |
|-------------|------------|-------------|-------------|------------|-------------|------|
| tgtaaaagtt  | atcagtaatc | ctaattcttt  | tcctggggtt  | tccttttgtc | acttattaat  | 60   |
| cagtttttga  | aaggacgaat | gaatttagag  | atgtactctg  | gagcagtatc | atgttaaacc  | 120  |
| aggggtatat  | tagaaaaatc | atcctcataa  | tcattctggg  | aagtttttcc | tccccaaaaa  | 180  |
| aagccatcct  | gatgggtttt | caaaaaccaga | aaaaagctct  | taatgaggaa | cagaccactg  | 240  |
| gagtacccat  | gagcatctca | ggaaaactga  | gaccctcgag  | aagccttgat | ttcgtgcaac  | 300  |
| ccccaaagtt  | tcagagccag | cagcccagtg  | ctgtgggttga | cagacgtggt | tttktggrra  | 360  |
| aagcagccag  | aggccaggaa | ttttcagagt  | cgtagatcac  | grtytcccac | ccaagattag  | 420  |
| agcamagatt  | agccatactg | agatttggtg  | aaatcattct  | gtctaagcaa | tggaggtgtg  | 480  |
| tgcamacgtg  | cagtgcctgt | tcacagggga  | tgcaggcaga  | tcyygggttt | aggatggggr  | 540  |
| aggccaccgc  | acccocyttc | aytgetctgc  | acctgctccc  | tcacgtggac | actgtccaca  | 600  |
| actgtggctc  | tcacaggaca | gttgcccaag  | gagctcatat  | cttatttgag | ataggggggtc | 660  |
| gtacagggtga | cattcatgag | cagtgtgagc  | cggttgacat  | gggggtgtca | accagcatc   | 720  |
| tgtccaggag  | ctcctcctgc | agcggctctg  | gcaggtggcc  | tgaggctcct | ttttgagaga  | 780  |
| gaactgtttg  | gccttcctgt | ctcctctcct  | ctgatctgtt  | ctttcttgga | acaccaccca  | 840  |
| agaacgtcac  | ctcctccatc | agatttgtgag | ctcctggagg  | gcaggagctg | tgtccttcta  | 900  |
| ttcatcttcc  | tatccccaga | accttgccaca | gatcctggaa  | tgtggtagg  | gctcagtaaa  | 960  |
| tgtgtgttga  | ataaatgaat | gaatgaatga  | acaaatgaat  | gaatttgctt | acttcaaggc  | 1020 |
| aaaagaacca  | tgaactgtga | ttttgagttt  | ctatgttata  | gcagtcagca | aatcctatta  | 1080 |
| aatactttgt  | gtttccaagc | aaaaaaaaaa  | aaaaaaaaaa  | aaactcga   |             | 1128 |

&lt;210&gt; 183

&lt;211&gt; 2276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 183

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ccgcggcgctc | tgacctcatg | gcgtagagcc | tagcaacagc | gcaggctccc | agccgagtc  | 60  |
| gttatggccg  | ctgccgtccc | gaagaggatg | agggggccag | cacaagcgaa | actgctgccc | 120 |
| gggtcggcca  | tccaagccct | tgtgggggtt | gcgcggccgc | tggctctggc | gctcctgctt | 180 |
| gtgtccgccg  | ctctatccag | tgttgtatca | cggactgatt | caccgagccc | aaccgtactc | 240 |
| aactcacata  | tttctacccc | aatgtgaat  | gctttaacac | atgaaaacca | aaccaaacct | 300 |
| tctattttccc | aatcagcac  | cacctccct  | cccacgacga | gtaccaagaa | aagtggagga | 360 |
| gcattctgtg  | tcctcatcc  | ctgcctact  | cctctgtctc | aagaggaagc | tgataacaat | 420 |
| gaagatccta  | gtatagagga | ggaggatctt | ctcatgctga | acagttctcc | atccacagcc | 480 |
| aaagacactc  | tagacaatgg | cgattatgga | gaaccagact | atgactggac | cacgggcccc | 540 |
| agggacgacg  | acgagtctga | tgacaacctg | gaagaaaaca | gggggttacc | ggaaattgaa | 600 |

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| cagtcagtga  | aatctttttaa | gatgccatcc  | tcaaatatag  | aagaggaaga  | cagccatttc | 660  |
| ttttttcattc | ttattatttt  | tgcttttttgc | attgctgttg  | tttacattac  | atatcacaac | 720  |
| aaaaggaaga  | tttttcttct  | gggtcaaagc  | aggaaatggc  | gtgatggcct  | ttgttccaaa | 780  |
| acagtggaaat | accatcgccct | agatcagaat  | gttaatgagg  | caatgccttc  | tttgaagatt | 840  |
| accaatgatt  | atattttttta | aagcactgtg  | atttgaattt  | gcttatgtaa  | ttttatttgc | 900  |
| ttgacttttt  | atatgatatt  | gtgcaaattg  | ttgccatagg  | caattggtac  | ttaaatgaga | 960  |
| gggtgagtctc | tcttttgcct  | tggtgctttg  | gaaattaaat  | gtcacaaaacg | agtatataat | 1020 |
| tttttatctg  | tactttttaga | gctgagttta  | atcaggtgtc  | caaaatgtga  | gttaaacatt | 1080 |
| accttatatt  | tacactgtta  | gttttttattg | tttttagattt | attatgcttc  | ttctggaagt | 1140 |
| attagtgtatg | ctactttttaa | aagatcccaa  | acttgtaact  | aaattctgac  | atatctgtta | 1200 |
| ctgctgactc  | acattcattc  | tccgccattc  | aaatactatt  | ttttatccac  | attttttttt | 1260 |
| gttcccaaac  | tgtaatgtac  | aaggatattg  | gtgataatgc  | tttggatttg  | agtaataatt | 1320 |
| ttttttcttc  | caagaaaact  | gcttttgata  | tttttagata  | atttaaacad  | aatttaggat | 1380 |
| aatgatattg  | ctcaatctga  | ccacaatttt  | aggtaaaaac  | ttaaatgtgt  | cagaaatctt | 1440 |
| ggcaacagag  | actctgcagc  | ttgcagtggg  | catagataaa  | atgttacaga  | gatactattt | 1500 |
| ttttggcttg  | aattactata  | ttaaatttag  | aagcagaaac  | tggtaaaaatg | ttaaatacat | 1560 |
| gtacaattgc  | tttttagttag | caattgattg  | tagcatgggt  | tcctccaagg  | tttcaagcaa | 1620 |
| tgggcagagt  | ttaaaattat  | atcagattcg  | tttacttcgt  | ttattatttt  | acagtaaatt | 1680 |
| tgaataaaatc | ttagggtgca  | ttatcactta  | aataatactg  | tacctagggtc | tttcaaatta | 1740 |
| aaattatacc  | tgaatgaagt  | tgtttgtata  | cataaaggat  | atttgtgtac  | aattaccttt | 1800 |
| tttccccac   | acttgttttc  | tttggttttg  | ttttttatgg  | caactggaaa  | gtatttacta | 1860 |
| tgggattcat  | ttatgtctgt  | ctttctatca  | taaagaattg  | atcaatatgt  | aaatatgtga | 1920 |
| tttgaaccat  | ggttgactta  | caagtgtcac  | tacagctttt  | tagaaaacat  | agccctaata | 1980 |
| tatgttaagc  | aggaccggg   | tgagccagt   | ggcttgcgt   | ttatgtagag  | ctggaagaag | 2040 |
| gocgtccatc  | ctgtctcttg  | ggcggacagt  | gtactttcct  | aatagggag   | ggaagcacao | 2100 |
| tggaaatacc  | cctgaaccgt  | tttattgcag  | taattttttt  | catatctgaa  | actattattt | 2160 |
| aatactttga  | ataagatttt  | aaaaaatpaa  | tggcaaagat  | ataaatctaa  | aaaaaaaaaa | 2220 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaa     | 2276 |

<210> 184  
 <211> 3374  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 184   |             |             |             |             |            |      |
| ggcggcagtg  | tccaagctac  | gccactcggg  | ctggggcggt  | gggagcggga  | gtgcagagcg | 60   |
| tggctcgtggc | ggcggcggtg  | agaagagcga  | ggcggaggag  | gggtgccat   | ggccgggcag | 120  |
| cagttccagt  | acgatgacag  | tgggaacacc  | ttcttctact  | tcctcacctc  | cttcgtgggg | 180  |
| ctcatcgtga  | tcccggcgac  | atactacctc  | tggccccgag  | atcagaatgc  | cgagcaaat  | 240  |
| cgattaaaga  | atatcagaaa  | agtatatgga  | agggtgatgt  | ggatcgttt   | acggttatta | 300  |
| aaaccccgagc | caaatattat  | tcctacagta  | aagaaaatag  | ttctgcttgc  | aggatgggca | 360  |
| ttgtttctat  | tccttgcata  | taaagtttcc  | aaaacagacc  | gagaatacca  | agaatacaat | 420  |
| ccttatgaag  | tattaaattt  | ggatcctgga  | gccacagtag  | cagaaattaa  | aaaacaatat | 480  |
| cgtttgcgtg  | cacttaaaata | tcattccagat | aaaggagggtg | atgaggttat  | gttcatgagg | 540  |
| atagcaaaaag | cttatgctgc  | tttaacggat  | gaagagtccc  | ggaaaaattg  | ggaagaattt | 600  |
| ggaaatocag  | atgggcctca  | agccacaagc  | tttggaaattg | ccctgccagc  | tcggatagtt | 660  |
| gaccagaaaa  | attcaattct  | ggttttactt  | gtatatggat  | tggcatttat  | ggttatcctt | 720  |
| ccagttgttg  | tgggtctctg  | gtggtatcgc  | tcaatcgcct  | atagtggaga  | ccagattcta | 780  |
| atacgcacaa  | cacagattta  | tacatacttt  | gtttataaaa  | cccgaatat   | ggatatgaaa | 840  |
| cgtcttatca  | tgggttttggc | tggagcttct  | gaatttgatc  | ctcagtataa  | taaagatgcc | 900  |
| acaagcagac  | caacggataa  | tattctaata  | ccacagctaa  | tcagagaaat  | tggcagcatt | 960  |
| aatttaaaaga | agaatgagcc  | tcacttacc   | tgcccatata  | gcctgaaggc  | cagagttctt | 1020 |
| ttactgtctc  | atcttgctag  | aatgaaaatt  | cctgagaccc  | ttgaagaaga  | tcagcaattc | 1080 |
| atgctaaaaa  | agtgtcctgc  | cctacttcaa  | gaaatggtta  | atgtaatctg  | ccaactaata | 1140 |
| gtaatggccc  | ggaaccgtga  | agaaagggag  | tttctgtctc  | caactttggc  | atccctagaa | 1200 |
| aactgcacga  | agctttctca  | gatggccgtt  | cagggacttc  | agcaatttaa  | gtctcccttt | 1260 |
| ctgcagctcc  | ctcatattga  | agaggacaat  | cttagacggg  | tttctaataca | taagaagtat | 1320 |

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aaaattaaaa  | ctatccagga  | tttgggtgagt | ttaaaagaat  | cagatcgtca  | cactctactg  | 1380 |
| cacttccttg  | aagatgaaaa  | atatgaagag  | gttatggctg  | tccttgggag  | ttttccatat  | 1440 |
| gtgaccatgg  | atataaaatc  | acaggtgtta  | gatgatgaag  | atagcaacaa  | catcacagta  | 1500 |
| ggatccttag  | ttacagtgtt  | ggttaagttg  | acaaggcaaa  | caatggctga  | agtatttgaa  | 1560 |
| aaggagcagt  | ccatctgtgc  | tgcagaggaa  | cagccagcag  | aagatgggca  | gggtgaaact  | 1620 |
| aacaagaaca  | ggacaaaagg  | aggatggcaa  | cagaagagta  | aaggacccaa  | gaaaactgct  | 1680 |
| aaatcaaaaa  | aaaagaaacc  | tttaaaaaaa  | aaacctacac  | ctgtgctatt  | accacagtca  | 1740 |
| aagcaacaga  | aacaaaagca  | ggcaaattgga | gtcgttggga  | atgaagctgc  | agtaaaggaa  | 1800 |
| gatgaagaag  | aagtttcaga  | taagggcagt  | gattctgaag  | aagaagaaac  | caatagagat  | 1860 |
| toccaaagtg  | agaaagatga  | tggtagtgac  | agagactctg  | atagagagca  | agatgaaaaa  | 1920 |
| caaaacaaag  | atgatgaagc  | agagtggcaa  | gaattacaac  | aaagcataca  | gcgaaaagag  | 1980 |
| agagctctat  | tggaaaccaa  | atcaaaaata  | acacatcctg  | tgtatagcct  | ttactttcct  | 2040 |
| gaggaaaaac  | aagaatgggtg | gtggctttac  | attgcagata  | ggaaggagca  | gacattaata  | 2100 |
| tccatgccat  | atcatgtgtg  | tacgtgaaa   | gatacagaga  | aggtagagct  | gaagtctcct  | 2160 |
| gcaccaggca  | agcctggaaa  | ttatcagtat  | actgtgtttc  | tgagatcaga  | ctcctatatg  | 2220 |
| ggtttggtgc  | agattaaacc  | attgaagtgt  | gaagtctcat  | aggctaagcc  | tgtgccagaa  | 2280 |
| aatcacccac  | agtgggatac  | agcaatagag  | ggggatgaag  | accaggagga  | cagtggaggc  | 2340 |
| tttgaagata  | gctttgagga  | agaagaggag  | gaagaagaag  | atgatgacta  | agcagtactc  | 2400 |
| tgaatggacc  | acagtgtttg  | cacatatatt  | caattttttg  | ctgttttgga  | agtgtatcat  | 2460 |
| aaaccagaaa  | cagtacagaa  | ctgatgttga  | gggaggtgta  | gtttttttac  | tctagaaatg  | 2520 |
| ggtgcataat  | ataactaggc  | agtggcgggtg | ccttgggtaca | acctgaaaaa  | tgttaaggct  | 2580 |
| tattgaaacc  | tttcaagtag  | gggatgggtac | atttatattca | tctgcaaattg | ataataaatc  | 2640 |
| ctttgttatt  | ataactgtcc  | agaagtgtgg  | gctatgtatt  | atctgatcag  | tctatgggtcc | 2700 |
| cagtaaaagt  | aaagatgcag  | gaaacacagt  | ctgtaaatga  | gcgacttttc  | tttgttcagc  | 2760 |
| tttagtttta  | gcaaacacca  | caaatatgtt  | ttaagtaaca  | tcgctcaagt  | ttaagtaaca  | 2820 |
| tcgctcaagt  | tgataatctc  | ttgataagct  | ctgttgttga  | cattttgcag  | tgatacaaca  | 2880 |
| gctccactca  | tagattttaa  | cttttatptt  | tacttatctt  | ggtcataagt  | tggcattctc  | 2940 |
| tcacattcca  | catgatatag  | agggctacgt  | tttggaaatt  | tcctttttct  | aattgcccag  | 3000 |
| agttatcaga  | cagattataa  | aaatggcctt  | taatggctta  | aaccatttct  | aaacctctat  | 3060 |
| cttagcagat  | caatgcagga  | tctaattctt  | ttgataagtt  | ctagctctaa  | aagtgatagt  | 3120 |
| gggactgtat  | gttttctgat  | actggtggct  | tatgttatta  | aacctttttt  | aaaaaagggt  | 3180 |
| cactctaaaa  | gctgaactac  | atccttagtt  | ttcagctctac | ttgactctat  | caggagcttt  | 3240 |
| ttaaggaaaag | taagtataac  | atgcaaagga  | agcttttttt  | gtattcattt  | tggactcctg  | 3300 |
| tcaataaaaa  | tagaagtttg  | ttgactcgta  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaccc  | 3360 |
| ccggggggggg | cccc        |             |             |             |             | 3374 |

&lt;210&gt; 185

&lt;211&gt; 1337

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1337)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 185

|             |            |            |             |             |             |     |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| cttccgggttc | tccgggcagc | tgccactgct | gtagcttctg  | ccacctgcca  | cgaccggggc  | 60  |
| tctccctggc  | gtttggtcac | ctctgcttca | ttctccaccg  | cgcctatggg  | ccctcttgga  | 120 |
| gccagcgtgg  | cgggcctggc | ggctcccggt | tggtagagaga | gcggctccggg | aacgatgaag  | 180 |
| gcctcgcagt  | gctgctgctg | tctcagccac | ctcttggtct  | ccgtcctcct  | cctgctgttg  | 240 |
| ctgcctgaac  | taagcgggyc | cctggmagtc | ctgctgcagg  | cagccgaggc  | cgcgccaggc  | 300 |
| cttgggcctc  | ctgacctag  | accacggaca | ttaccgccgc  | tgccaccggg  | ccctaccctc  | 360 |
| gcccagcagc  | cgggccgtgg | tctggctgaa | gctgcggggc  | cgcggggctc  | cgaggggaggc | 420 |
| aatggcagca  | accctgtggc | cgggcttgag | acggacgata  | acggagggaa  | ggccggggaa  | 480 |
| ggctcggtgg  | gtggcgccct | tgcgtgtgag | cccaaccctg  | gcgacaagcc  | catgaccag   | 540 |
| cgggcccctga | cogtgttgat | ggcggtgagc | ggcgcggtgc  | tgggtgtact  | cgtgggtcagg | 600 |

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| acgggtcagga | tgagaagaag  | aaaccgaaag  | actaggagat | atggagtttt | ggacactaac  | 660  |
| atagaaaata  | tggaartgac  | accttttagaa | caggatgatg | aggatgatga | caacacgttg  | 720  |
| tttgatgcca  | atcatcctcg  | aagataagaa  | tgtgcctttt | gatgaaagaa | ctttatcttt  | 780  |
| ctacaatgaa  | gagtgggaatt | tctatgttta  | aggaataaga | agccactata | tcaatgttgg  | 840  |
| gggggtattt  | aagttacata  | tattttaaca  | acctttaatt | tgctgttgca | ataaataaccg | 900  |
| tatccttttta | ttatatcttt  | atatgtatag  | aagtactctr | ttaatgggct | cagagatggt  | 960  |
| ggggataaaag | tatactgtaa  | taatttatct  | gtttgaaaat | tactataaaa | cgggtgttttc | 1020 |
| tgatcggttt  | ttgtttcctg  | cttaccatat  | gattgtaaat | tgttttatgt | attaatcagt  | 1080 |
| taatgctaata | tatttttgct  | gatgtcatat  | gttaaagagc | tataaattcc | aacaaccaac  | 1140 |
| tgggtgtgtaa | aaataattta  | aaatttcctt  | tactgaaagg | tatttcccat | ttttgtgggg  | 1200 |
| aaaagaagcc  | aaatttatta  | ctttgtgttg  | gggtttttta | aatattaaga | aatgtctaag  | 1260 |
| ttattgtttg  | caaaacaata  | aatatgattt  | taaactctct | taaaaaaaaa | aaaaaaaaacc | 1320 |
| ccggggggggg | gcccggg     |             |            |            |             | 1337 |

&lt;210&gt; 186

&lt;211&gt; 941

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 186

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| ggcacgagcc | tggacgcagc  | agccaccgcc  | ggtccctct  | ctccacgagg | ctgccggctt | 60  |
| aggaccccca | gctccgacat  | gtcgccctct  | ggtcgccgt  | gtcttctcac | catcgttggc | 120 |
| ctgattotcc | ccaccagagg  | acagacgttg  | aaagatacca | cgtccagttc | ttcagcagac | 180 |
| tcaactatca | tggacattca  | ggtcccgaca  | cgagcccag  | atgcagtcta | cacagaactc | 240 |
| cagcccacct | ctccaacccc  | aacctggcct  | gctgatgaaa | caccacaacc | ccagaccag  | 300 |
| accagcaac  | tgggaaggaa  | ggatgggct   | ctagtgcag  | atccagagac | acacaagagc | 360 |
| accaaagcag | ctcatcccac  | tgatgcacac  | acgacgctct | ctgagagacc | atccccaagc | 420 |
| acagacgtcc | agacagaccc  | ccagaccctc  | aagccatctg | gttttcatga | ggatgacccc | 480 |
| ttcttctatg | atgaacacac  | cctccggaaa  | cgggggctgt | tggtcgcagc | tgtgtgttcc | 540 |
| atcacaggca | tcattcatcct | caccagtggt  | aagtgcaggc | agctgtcccg | gttatgccgg | 600 |
| aatcattgca | ggtgagtcca  | tcagaaacag  | gagctgacaa | ccygtgggc  | acccgaagac | 660 |
| caagccccct | gccagctcac  | cgtgccccagc | ctcctgcac  | ccctcgaaga | gcctggccag | 720 |
| agagggaaga | cacagatgat  | gaagctggag  | ccagggctgc | cgggtccgag | ctcctacctc | 780 |
| ccccaacct  | gcccgcctcc  | gaaggctacc  | tggcgccctg | ggggctgtcc | ctcaagttat | 840 |
| ctcctctgyt | aagacaaaaa  | gtaaagcact  | gtggtctttg | caaaaaaaaa | aaaaaaaaaa | 900 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaactcg | a          |            | 941 |

&lt;210&gt; 187

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 187

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgagcc | agcttgtgct | ttaaaggagg | tgttcaaagc | atgtctgagc | agagactttt | 60  |
| gggctctgtt | ttaattaata | ctttaaaata | attcatat   | aaaataacag | atgtttccat | 120 |
| aaagaggagg | atgtttaaat | gctccagac  | tacattcct  | tttattcttg | attttacctg | 180 |
| ggagtccaaa | gttcaattcc | ataaagcaag | cgtttatttg | tcactttcaa | tatacatcga | 240 |
| ttgccatgct | taagatgcaa | tatgggctgc | ggaaataggt | taaccacag  | gctcccaggg | 300 |
| cccagtgtag | aagtgtagag | attcgtgtaa | aatgattcaa | ataaaaggaa | gacctgggcc | 360 |
| gggtgccgta | gtcacgcct  | gtaatcccag | cactttggga | ggccgaagcg | agtggatgac | 420 |
| gaggttagga | gttgagagcc | agcctggcca | acatcgtgaa | accccgctct | tactaaaaat | 480 |
| acaaaaatta | gccgggcatg | gtggcaggca | cctgtaatcc | tagctagtgt | ggaggctgag | 540 |
| gcaggagaat | cgtttgaatc | tgggagttgg | aggttgaggt | gagctgagat | cgcgccacag | 600 |
| cactccagcc | tgggtgacag | ggtgagactc | tgtctcaaaa | aaaaaaataa | ataaataaag | 660 |
| taaaaaaaaa | aaaaaaaaa  |            |            |            |            | 678 |

<210> 188  
 <211> 1848  
 <212> DNA  
 <213> Homo sapiens

<400> 188  
 gaaactggac cggagaaccg gagcgaagcg aagcgggaagc ccggaatgag gccggactgg 60  
 aaagccggag cggggccagg cgggcccctccc caaaagcctg ccccttcac ccagcggaaa 120  
 ccgccggccc ggccgagcgc ggccggccgct gcgattgcag tcgcggcgcc ggaggaagag 180  
 agacggctcc ggccagcggaa ccgcctgagg ctggaggagg acaaacccgg cgtggagcgg 240  
 tgcttgagg agctggtctt cggcgacgct gagaacgacg aggacgcgtt gctgcggcgt 300  
 ctgcgaggcc cgagggttca agaaccatgaa gactcgggtg actcagaagt ggagaatgaa 360  
 gcaaaaggta atttccacc tcaaaagaag ccagtttggg tggatgaaga agatgaagat 420  
 gaggaatgg ttgacatgat gaacaatcgg tttcgggaag atatgatgaa aaatgctagt 480  
 gaaagtaaac tttcgaaaaga caaccttaaa aagagactta aagaagaatt ccaacatgcc 540  
 atgggaggag tacctgcctg ggcagagact actaagcggg aaacatcttc agatgatgaa 600  
 agtgaagagg atgaagatga tttgttgcaa aggactggga atttcatatc cacatcaact 660  
 tctcttccaa gaggcattct gaagatgaag aactgccagc atgcgaatgc tgaacgtcct 720  
 actgttgctc ggatctccat ctgtgcagtt ccattcccgg gcacagattg tgatggttgc 780  
 tgggattaga taatgctgta tcaactatttc aggttgatgg gaaaacaaat cctaaaattc 840  
 agagcatcta tttggaaagg tttccaatct ttaaggcttg ttttagtgct aatggggaag 900  
 aagtttttag cagcagatcc cacagcaagg ttctttatgt ctatgacatg ctggctggaa 960  
 agttaattcc tgtgcatcaa gtgagagggt tgaaagagaa gatagtggag agctttgaag 1020  
 tctccccaga tgggtccttc ttgctcataa atggcattgc tggatatttg catttgctag 1080  
 caatgaagac caaagaactg attggaagca tgaaaattaa tgggaagggtt gcagcatcca 1140  
 cattctcttc agatagtaag aaagtatacg cctcttcggg ggatggagaa gtttatgttt 1200  
 gggatgtgaa ctcaagggaag tgccttaaca gatttggtga tgaaggcagt ttatatggat 1260  
 taagcattgc cacatctagg aatggacagt atgttgcttg tggttctaata tgtggagtgg 1320  
 taaatatata caatcaagat tcttgtctcc aagaaacaaa cccaaagcca ataaaagcta 1380  
 taatgaactt ggttacaggt gttacttctc tgacctcaa tctactaca gaaatcttgg 1440  
 caattgcttc agaaaaaatg aaagaagcag tcagattggt tcatcttctt tccgttacag 1500  
 tatttttcaa cttcccagtc attaaaaata agaataattc tcatgttcat accatggatt 1560  
 tttctccgag aagtggatac tttgccttgg ggaatgaaaa gggcaaggcc ctgatgtata 1620  
 ggttgaccca ttactcagac ttctaagag actatttgaa gtccagttga gtcacaagag 1680  
 aagcctgtct tgatatatca tctcagaaac tttcctgaat atgtgataat atatggaaaa 1740  
 tgatttatag atccagctgt gcttaagagc cagtaatgtc ttaataaaca tgtggcagct 1800  
 tttgtttgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcga 1848

<210> 189  
 <211> 1292  
 <212> DNA  
 <213> Homo sapiens

<400> 189  
 gctgccttgc tccacacctg gtcaggggag agaggggaaa gccaaaggaa gggacctaac 60  
 tgaaaacaaa caagctggga gaagcaggaa tctgcgctcg ggttccgcag atgcagaggc 120  
 tgagggtggc cggggactgg aagtcacatcg gcagaggctc cacagcarcc aaggaacctg 180  
 gggcccgcct cccccccctc caggccatga ggattctgca gttaatcctg cttgctctgg 240  
 caacagggct tgtaggggga gagaccagga tcatcaaggg gttcgagtgc aagcctcact 300  
 cccagcccctg gcaggcagcc ctgttcgaga agacgcggct actctgtggg gcgacgctca 360  
 tcgccccccag atggctcctg acagcagccc actgctcaa gccccgctac atagttcacc 420  
 tggggcagca caacctccag aaggaggagg gctgtgagca gaccgggaca gccactgagt 480  
 ccttccccca ccccggttcc aacaacagcc tccccacaa agaccaccgc aatgacatca 540  
 tgetggtgaa gatggcatcg ccagttctca tccactgggc tgtgcgaccc ctcacctct 600  
 cctcacgctg tgtcactgct ggcaccagct gytcatcttc cggctggggc agcacgtcca 660  
 gccccagtt acgcctgctt cacaccttgc gatgcgcaa catcaccatc attgagcacc 720



|            |            |              |            |             |            |      |
|------------|------------|--------------|------------|-------------|------------|------|
| agaagtgtga | gaacgcctac | cccggcaaca   | tcacagacac | catgggtgtgt | gccagcgtgc | 780  |
| aggaaggggg | caaggactcc | tgccagggtg   | actccggggg | ccctctggtc  | tgtaaccagt | 840  |
| ctcttcaagg | cattatctcc | tggggccagg   | atccgtgtgc | gatcaccoga  | aagcctggtg | 900  |
| tctacacgaa | agtctgcaaa | tatgtggact   | ggatccagga | gacgatgaag  | aacaattaga | 960  |
| ctggaccac  | ccaccacags | ccatcacct    | ccatttccac | ttgggtgtttg | gttcctgttc | 1020 |
| actctgttaa | taagaaaccc | taagccaaga   | ccctctacga | acattctttg  | ggcctcctgg | 1080 |
| actacaggag | atgctgtcac | ttaataatca   | acctgggggt | cgaaatcagt  | gagacctgga | 1140 |
| ttcaaattct | gccttgaaat | attgtgactc   | tgggaatgac | aacacctggt  | ttgttctctg | 1200 |
| ttgtatcccc | agccccaaag | acagctcctg   | gccatataac | aaggtttcaa  | taaataattg | 1260 |
| ctaaatgaaa | aaaaaaaaaa | aaaaaaaaactc | ga         |             |            | 1292 |

&lt;210&gt; 190

&lt;211&gt; 906

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (144)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 190

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| actccctcac  | ccaggtecca | gccctgggaa  | ccacctaccg  | tgagcccttt  | tgcagatata | 60  |
| gactcatttc  | atcctcagat | ggtccttcaa  | ggtagggtact | ttagtcccat  | tttagagatg | 120 |
| agacgattga  | ggccagaggg | gtgnngtaac  | ttgcctgggg  | gctcacgagc  | acaaaaggag | 180 |
| ccgaggcagg  | atctgaccct | tgttctctgg  | cctcactgcc  | ctcactttgc  | catgaccoga | 240 |
| agttatgtcc  | ctacaaagca | atgcatgggtc | caaggytctt  | tttattgtat  | ttttattttt | 300 |
| aagggtcctg  | ttcaaaactg | gtgtgagctc  | tgaggagtcc  | tgaaccctgg  | gtgcagcatc | 360 |
| ctagcatcct  | gggagtcctt | ttctgccac   | actgagctgg  | gctcctcgag  | gggtggggct | 420 |
| gctgtccctg  | gaagcctggc | agcagcactg  | tatcggttg   | gctgaagctg  | arcgccgtgg | 480 |
| ggtgcagggc  | tccmgaatc  | cccgtttggc  | tgaaggggtt  | ccctgtagcc  | mgggatgttt | 540 |
| atgagggtctc | tctgatgccc | caggcgccagg | acatgtgtgc  | gggtggagaa  | aagcaggccc | 600 |
| tttcagtgc   | agctccactc | aatttctatg  | tggaccaaga  | acgataaaact | taaaaaattt | 660 |
| tttttcctaa  | ggtatcttca | gaatatgggtg | tatttttatg  | tgaaaaagaa  | aagttatgaa | 720 |
| ggcagctgtt  | actttaagag | aaaattcatt  | aaaagtcctc  | gaggtatgaa  | gatgacggcg | 780 |
| tgcctctcaa  | tcattttggc | ataacttgat  | tgtggctgta  | attttttttt  | ttttttttgt | 840 |
| caagcatgtc  | agacaataaa | gtctttgtaa  | aaagrgaaaa  | aaaaaaaaaa  | aaaaaaaaaa | 900 |
| actcga      |            |             |             |             |            | 906 |

&lt;210&gt; 191

&lt;211&gt; 1941

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (561)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

<222> (1414)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1422)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1427)  
 <223> n equals a,t,g, or c

<400> 191

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| cttcagctga  | agcccagggg  | cccccttttcc | accctggggcc | ccaatgccgt  | cctttccccg | 60   |
| cagagactgg  | tcttggaac   | cctcagcaaa  | ctcagcatcc  | aggacaacaa  | tgtggacctg | 120  |
| attctggcca  | cacccccctt  | cagccgcctg  | gagaagtgtg  | atagcactat  | ggtgcgcttc | 180  |
| ctcagtgacc  | gaaagaaccc  | ggtgtgccgg  | agatggctgt  | ggtactgctg  | gccaacctgg | 240  |
| ctcaggggga  | cagcctggca  | gctcgtgcca  | ttgcagtga   | gaagggcagt  | atcggaacc  | 300  |
| tcctgggctt  | cctagaggac  | agccttgccg  | ccacacagtt  | ccagcagagc  | caggccagcc | 360  |
| tcctccacat  | gcagaaccca  | ccctttgagc  | caaytagtgt  | ggacatgatg  | cggcgggctg | 420  |
| cccgcgcgct  | gcttgccctg  | gccaagggtg  | acgagaacca  | ctcagagttt  | actctgtacg | 480  |
| aatcacggct  | gttgacatc   | tcgggtatcac | cgttgatgaa  | ctcaktgggt  | tcacaagtca | 540  |
| tttgtgatgt  | actgtttttg  | nattggccag  | tcattgacagc | cgtgggacac  | ctcccccccc | 600  |
| cgtgtgtgtg  | tgctgtgtgt  | gagaacttag  | aaactgactg  | ttgcccttta  | tttatgcaaa | 660  |
| accacctcag  | aatccagttt  | accctgtgct  | gtccagcttc  | tcctctggga  | aaaagtctct | 720  |
| cctgtttctc  | tcctctcctt  | ccacctcccc  | tcctccatc   | acctcacgcc  | tttctgttcc | 780  |
| ttgtccctac  | cttactcccc  | tcaggacctt  | acccacacct  | ccttgaaaag  | acaaagctct | 840  |
| gcctacatag  | aagacttttt  | tcattttaac  | caaagttaact | gttgtttaca  | gtgagtttgg | 900  |
| ggaaaaaaaa  | taaaataaaa  | atggctttcc  | cagtccttgc  | atcaacggga  | tgccacattt | 960  |
| cataactgtt  | tttaattgga  | aaaaaaaaaa  | aaaaaaaatac | aaaaaaaaaat | tctgaaggac | 1020 |
| aaaaaagggtg | actgctgaac  | tgtgtgtggt  | ttattgttgt  | acattcacaa  | tcttgcagga | 1080 |
| gccaagaagt  | tcgcagtgtg  | gaacagacct  | tgttccactg  | agaggcctgt  | gcagtagagt | 1140 |
| gtagaccttt  | tcattgtactg | tactgtacac  | ctgatactgt  | aaacatactg  | taataataat | 1200 |
| gtctcacatg  | gaaacagaaa  | acgctgggtc  | agcagcaagc  | tgtagttttt  | aaaaatgttt | 1260 |
| ttagttaaac  | gttgaggaga  | aaaaaaaaaa  | aggcttttcc  | cccaaagtat  | catgtgtgaa | 1320 |
| cctacaacac  | cctgacctct  | ttctctcctc  | cctgactgta  | tgaataaccc  | tgagatcacc | 1380 |
| tcttagaact  | ggttttaacc  | tttagctgca  | gcgnctacgt  | cnawcgntgt  | gtatatatat | 1440 |
| gacgtkgtac  | attgcacata  | cccttggtatc | cccacagttk  | ggtccctcctc | ccagctaccc | 1500 |
| ccttatagta  | tgacgagtta  | acaagtttgt  | gacctgcaca  | aagcgagaca  | cagctattta | 1560 |
| atctcttgcc  | cagatatcgc  | ccctcttggt  | gcgatgtgtg  | acaggtctct  | gtaaaaagtc | 1620 |
| cctgctgtct  | cagcagccaa  | tcaacttata  | gtttattttt  | ttctgggttt  | ttgttttgtt | 1680 |
| ttgttttctt  | tctaactcag  | gtgtgaaaaa  | gttctagggt  | cagttgaagt  | tctgatgaag | 1740 |
| aaacacaatt  | gagatttttt  | cagtataaaa  | atctgcatat  | ttgtatttca  | acaatgtagc | 1800 |
| taaaacttga  | tgtaaatccc  | tccttttttt  | cctttttttg  | cttaatgaat  | atcatttatt | 1860 |
| cagtatgaaa  | tcctttatact | atatgttcca  | cgtgttaaga  | ataaatgtac  | attaaatctt | 1920 |
| ggtaagactt  | taaaaaaaaa  | a           |             |             |            | 1941 |

<210> 192  
 <211> 2118  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1324)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1643)  
 <223> n equals a,t,g, or c

<400> 192

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| aaataataat  | aanaataaat  | aaaaatwaag  | tgcttaktgt  | aactcagcgg  | acagggctcc | 60   |
| cagctgctct  | ggcacgtggg  | acaccytcca  | ccctgcacac  | aacaggcatg  | caaagaggac | 120  |
| tggatatggg  | ggggtagagt  | gcttctgggtg | tgcttacttt  | aagaaaacat  | ctgccaagag | 180  |
| agaagagtgc  | ccaggaaaaga | ccaggaaaaat | acaagtacat  | ggctgcttca  | taccatatac | 240  |
| cccaattctt  | taaagcagca  | aaaggcaactt | tttttttcag  | gccagagtga  | atctaaaaca | 300  |
| aacctggctt  | tgcttacagg  | gaagctgtcc  | cagaaggact  | gagtgatgcc  | tcttgctccc | 360  |
| taaggtctgg  | agagtctttg  | caagtttcca  | acgacatttc  | caaccagggtg | ggagagacca | 420  |
| gcagttgacg  | agacaagtca  | gacccaaaaa  | acgacgcca   | ggtagtgagt  | gggtgcctat | 480  |
| ttgggagtag  | gatgatttga  | ggaaaacagg  | aagaaaaacc  | ggtcagaaag  | tggcactttg | 540  |
| gaagtggaaa  | gctgttttga  | aatagcaact  | ctggctaagg  | cgaaaatgtt  | aatcaagtag | 600  |
| aaagtaaaat  | tcaggatctt  | agaagctcat  | ccttctgatg  | agaactattt  | ttttttccgt | 660  |
| gaaggaacta  | ttattacttt  | aaaagtgagg  | gtaatttaca  | tatgggggtg  | atatattcta | 720  |
| aaaatagtaa  | taaaagtacc  | ttttataagc  | aatgttggtg  | ggcttgtaga  | agaaagcagg | 780  |
| gaggaaaaaa  | aggcaggcaa  | aactagctta  | ggtctaggcc  | ctaaaaatga  | gcttccttcc | 840  |
| cacttgactg  | gaaacgcccc  | tgtgatttct  | aggctgaaaa  | taggtaggat  | ttaacgagta | 900  |
| acctagttcc  | cttctgtctc  | tgattttctga | tcagctgatg  | gagctgctag  | taagaggggc | 960  |
| cgatcatgct  | cccagacgag  | tcctttggcc  | tcttgctctc  | catcccaagc  | ctgactcctt | 1020 |
| cagcagcagc  | cccctccttc  | tgtgtccatc  | tgatgcaggc  | aagcaggagc  | agtaagaggg | 1080 |
| catcccatgt  | tccagttcac  | cttctatggg  | gtgactarga  | ggttcccggc  | aactaggggc | 1140 |
| gcccargccc  | agcagggttg  | aaaagcagct  | gcaagcttca  | gaaacccact  | tcctccaaca | 1200 |
| ccagggagggt | ggcagagagc  | ccatccaaaa  | gcccactggg  | agaggcataa  | gattctgtgc | 1260 |
| caggccccca  | ggtccccctc  | gtgtccaggta | ggctctgcta  | ctggcctctg  | aagtaaaggc | 1320 |
| aaanacaaac  | gggcagggca  | gggtggcgagg | aataaaaaaac | tctggacaga  | aaccctttta | 1380 |
| ataaaggaaa  | ttccaccctt  | cccaatcctt  | ccatggaagg  | gtgagacctt  | aatgtgatgt | 1440 |
| aagaggaagg  | tcttctcttg  | ctttcaggga  | aacagctgca  | gctgaaactt  | aggggcccct | 1500 |
| tccagggcac  | ttttcaccac  | agccagtgc   | gcccgtccaa  | gtgccactgt  | cagccccatc | 1560 |
| actgccaatt  | tcacaaagcg  | gttgggtcctt | ggcttggtca  | ggacatcttt  | tggtcgatct | 1620 |
| tcaggccgca  | gaagtccccg  | aanaccgctg  | cgcagcacc   | atatcaggcc  | tctgctgggc | 1680 |
| tgatgccagc  | tcaaagtctt  | tgaaagttaga | ggctgcccgc  | ctctcagctt  | gctgtgggc  | 1740 |
| agcggcctcc  | cgagcaagtt  | cggatggggg  | aaactgaaca  | aaaaggctct  | ctstctgctg | 1800 |
| atcagtgtct  | catagggcaa  | gtcctgaggg  | atctgggaca  | acagggtggg  | gaccgaggcc | 1860 |
| atgtcacagt  | cacagtccag  | gacttctctg  | tcgcgataca  | acacaatcac  | ggctgcaaag | 1920 |
| taaatcggca  | tcagtgggtg  | gcaggccagg  | aagaagtcac  | ataaccgcac  | gacgtgcctg | 1980 |
| aagtccagaca | ggacatgcc   | aaaccagggtg | atgagccagc  | tgagggcaaa  | gatggctcct | 2040 |
| acctcagcac  | tctgcatgaa  | gtcatggagc  | tctggattca  | cctgggtcaat | gatgggcatc | 2100 |
| agatagttta  | atatatgc    |             |             |             |            | 2118 |

<210> 193  
 <211> 1538  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (112)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (147)

<223> n equals a,t,g, or c

<400> 193

|             |             |             |            |            |            |      |
|-------------|-------------|-------------|------------|------------|------------|------|
| cggggttcgg  | ctctgtgtca  | gcagccgggc  | ggcgctcggg | cgggacatgg | cagcctgtac | 60   |
| agcccgggcg  | cctggccgtg  | ggcagccgct  | gggtgtcccg | gtcgctgact | gngggccggt | 120  |
| ggccaaggcc  | gctctgtgcy  | cgcccgcnagc | tggagccttc | tcgccagcgt | cgaccacgac | 180  |
| gacgcggagg  | cacctctcgt  | cccgaaccgg  | accagagggc | aaagtgttgg | agacagttgg | 240  |
| tgtgtttgag  | gtgccaaaac  | agaatggaaa  | atatgagacc | gggcagcctt | tccttcatag | 300  |
| catttttggc  | taccgaggtg  | tcgtcctggt  | tccctggcag | gccagactgt | rtgaccggga | 360  |
| tgtggcttct  | gcagctccag  | aaaaagcaga  | gaaccctgct | ggccatggct | ccaaggaggt | 420  |
| gaaaggcaaa  | actcacactt  | actatcaggt  | gctgattgat | gctcgtgact | gcccacatat | 480  |
| atctcagaga  | tctcagacag  | aagctgtgac  | cttcttggct | aaccatgatg | acagtcgggc | 540  |
| cctctatgcc  | atcccaggct  | tggactatgt  | cagccatgaa | gacatcctcc | cctacacctc | 600  |
| cactgatcag  | gttcccatcc  | aacatgaact  | ctttgaaaga | tttcttctgt | atgaccagac | 660  |
| aaaagcacct  | ccttttgtgg  | ctcgggagac  | gctaaggggc | tggcaagaga | agaatcacc  | 720  |
| ctggctggag  | ctctccgatg  | ttcatcggga  | aacaactgag | aacatacgtg | tcactgtcat | 780  |
| ccccctctac  | atgggcatga  | gggaagccca  | gaattcccac | gtgtactggg | ggcgctactg | 840  |
| tatccgtttg  | gagaaccttg  | acagtgatgt  | ggtacagctc | cgggagcggc | actggaggat | 900  |
| attcagtcct  | tctggcacct  | tggagacagt  | gcgaggccga | ggggtagtgg | gcagggaacc | 960  |
| agtgttatcc  | aaggagcagc  | ctgcgttcca  | gtatagcagc | cacgtctcgc | tgcaggcttc | 1020 |
| cagtgggcac  | atgtggggca  | cgttccgctt  | tgaagacct  | gatggctccc | actttgatgt | 1080 |
| tgggattcct  | cccttctccc  | tggaaagcaa  | taaagatgag | aagacaccac | cctcaggcct | 1140 |
| tcactggtag  | gccagctgag  | gccccaaagt  | cccaggcttg | gtcaccggga | agaacaactc | 1200 |
| tcattcccaca | attgctgcag  | aactcttctc  | tccccatcat | gggccacagt | gggtctctta | 1260 |
| atttgattgt  | ggggttcttt  | ttgtggggag  | gggtggtata | acttttcttc | agaagaccca | 1320 |
| tgtgggacac  | ctccaaggct  | ggcctcctca  | taagccctgc | ctacaccatg | ttccagtaaa | 1380 |
| cctctccacc  | aaggaaactgt | gttcagctgc  | cacaggcctg | gaggagtttc | ctggcctgtc | 1440 |
| acgtgaggtt  | tgatcagtaa  | accagtgcas  | gyttggccaa | aaaaaaaaaa | aaaaaaaaaa | 1500 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaactcga   |            |            | 1538 |

<210> 194

<211> 1098

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> SITE

&lt;222&gt; (438)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 194

|             |             |            |             |            |            |      |
|-------------|-------------|------------|-------------|------------|------------|------|
| agaccctgtc  | tcaaataata  | ataataataa | taatcttatt  | ttggagaata | aagagacctc | 60   |
| tggatttgag  | gtgccatttg  | ggtagaaaga | aaagacgttt  | acaccgagaa | atagtctgtg | 120  |
| ttgccctgaa  | ggagcagagg  | gatgcacgc  | tggagggtgac | ctacagttga | agaagactca | 180  |
| ttatgcacaga | ccttgctcct  | cttccttgtg | gaaagtgttt  | cctctgctgc | tactgctcat | 240  |
| gagactcttc  | ccccctccctg | tcccagggaa | ccaaagggct  | tttctaccac | accctttctt | 300  |
| ngccccccgc  | ctcccatgtc  | tgtctgtcct | ttgtactcag  | caattcttng | tttgctccca | 360  |
| ttatcttcca  | gcgggataca  | gagtgaatag | ttaaccacac  | ttaggtcaaa | taggatctaa | 420  |
| atttttgttc  | ctgctccngt  | gtaaagaggc | cagtgtttgt  | gtgttgcaag | cagccttgga | 480  |
| atagtaactc  | ttctcatttg  | tttgggatct | ggccamcaag  | ttocagaatg | atacacggat | 540  |
| cagtgcagaa  | gttcatcagg  | ctctcggacc | ttagggctgt  | tggagaaggc | ttcagcagca | 600  |
| gaactgatgg  | tkawkgytgc  | tgttctccat | cctcaacttt  | ccttgcttcg | atcatacaca | 660  |
| agaatacatt  | tgggaaggga  | aaaaatgaac | actgttgttc  | attgcagccg | tgttttgtga | 720  |
| cacagatgca  | cagtctgctg  | tgaagacctt | ctctcaagtg  | gsatytggga | gtccatgcca | 780  |
| gatcatggtg  | cttcatgaga  | gactgacagc | tatcaggggt  | tgtggcactt | agtgaggact | 840  |
| ctctctcccc  | agtgtgtgct  | gatgacacat | acacacctga  | caatagcttg | agtcttctct | 900  |
| gttcctttta  | ctctgtagcc  | aacatacaca | tgatttaaaa  | ccctttctaa | atatctatca | 960  |
| tggttcatcc  | ttgtccaaat  | gcagagtcag | agctatttgt  | acttcattat | tatttccaag | 1020 |
| gcgaatagtt  | ggcttttctt  | ttgcaaaaat | aattaaagtt  | tttgtatggt | gcaaaaaaaa | 1080 |
| aaaaaaaaaa  | ctacgtag    |            |             |            |            | 1098 |

&lt;210&gt; 195

&lt;211&gt; 1001

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 195

|            |             |             |            |            |            |      |
|------------|-------------|-------------|------------|------------|------------|------|
| gaattcggca | cgagatagct  | tgcattctcat | cccgtaaaa  | ccacttattt | ataacatata | 60   |
| aacgrattga | caagggttgaa | gagcaagatt  | gttctgaggt | gagatgcaaa | tttcaaaggg | 120  |
| gtgagcacta | attgtttocag | tgattgttta  | tttattggct | aggacataat | tactctcttt | 180  |
| gaggttacac | atctgcctcc  | aggttcctgt  | gtgcttgtgc | ccttgggato | aggccagggy | 240  |
| agactgtgat | cactgagatt  | caaactccca  | gartaatcag | caagagcttt | ctagagacca | 300  |
| aggccaggcc | tgatccctga  | gggatgcatg  | agaaggcttg | gaatctcatt | ctgctatggt | 360  |
| ggctctctct | tgatcttctt  | ggagtagcaa  | aaacagcaat | gtggggccaa | tgggtgtggc | 420  |
| taaatgatca | caaagggtaaa | tgagtaaagg  | gtcagcaga  | tgagtaagga | gccttgcctt | 480  |
| gagaaattag | cactgggctc  | tgcattcaga  | aacatgtgat | aagcattgcc | cattgcacat | 540  |
| tgcctttatt | gtgtaaggac  | atgaaattcc  | agttttgcat | agctagtgat | gaatacctga | 600  |
| agggaattgc | agacataatt  | tattttattt  | ttaattgaca | gatggaattg | tatatattta | 660  |
| tcatgtacat | aatcatgctt  | taaaatatgt  | acattatgga | atggctaaat | caaactaacc | 720  |
| taggcattat | ctcatataat  | tgtcattttt  | gtggcgagaa | gactaaaaat | ctaccctttc | 780  |
| agcattttta | aagaatacaa  | tgtgttttat  | taacaacagt | caccatttgg | tacactagat | 840  |
| ctcttgaact | tcttctctct  | atcctaactga | gatcttgtaa | cctttgataa | cagctcccaa | 900  |
| gcccttcccc | aaccactgct  | ccaccctgtg  | taaccaccat | tctattctca | acttcctggt | 960  |
| aatcaccatt | ctagacacag  | ggaagactct  | ctaccctctg | a          |            | 1001 |

&lt;210&gt; 196

&lt;211&gt; 1458

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 196

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ggcacgagat | aaactgaaat | aggctcatgca | aatataaaat | attattttta | aattatttgt | 60  |
| cataagaaac | gatgggtggc | atatcttgct  | ttaataatgg | aaaaaatgtg | gttagcattc | 120 |

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| tgtggaaggt  | ggatcatcaga | tagtagacat | tttctaggat | ttatttctac | ctgcatatgt | 180  |
| ggaaatgtgt  | actacttttag | atttatttta | tggcagctaa | ctcagaggca | tcaaaatgtg | 240  |
| ctaattggtgt | aatatggcct  | ttgtcttgct | gttctgtttt | gtaggccttc | aatcaagcag | 300  |
| ggcagggccg  | tacagtgaac  | ttgtcctttg | ccagacgcca | gggtctgccc | ctgaccccg  | 360  |
| ctccactctc  | tgtgtcctgg  | aggaggagcc | ccttgatgcc | taccttgatt | caccttctgc | 420  |
| gtgccttgta  | ctgaactggg  | aagagccgtg | caataacgga | tctgaaatcc | ttgcttacac | 480  |
| cattgatcta  | ggagacacta  | gcattaccgt | gggcaacacc | accatgcatg | ttatgaaaga | 540  |
| tctccttcca  | gaaaccacct  | accggtgagt | gcaagggagt | agaaatctgc | atcagcacat | 600  |
| cagcacttgg  | ggatctaagt  | aaacctctcg | gggaaaatga | ccaagtggat | gtcatctccc | 660  |
| agctgtttct  | aagagcccag  | atgtccagag | tattgtctca | ccttgatccc | tcaggccaga | 720  |
| agacctgtga  | aaaagccaca  | ctggttcagg | gactcactgg | acggttttgt | gtccactcta | 780  |
| acctgcaccg  | tctctacccc  | agagtggact | caaatcctca | agtcagtcct | ctgaacattg | 840  |
| aagtcagaaa  | ttataaaaagg | gctttggcaa | tatgttagcc | caagaatttg | gcttcttcca | 900  |
| gaaattgtgc  | cgaccttaac  | agtggcttaa | atgatggtaa | aacttttaag | atttctaaaa | 960  |
| ggatggcatt  | ggagatacgt  | tgacttttat | taaacaacct | atagttgttt | aatgactttc | 1020 |
| aaaaaaaaat  | ctggagctca  | ggggttcaac | tgagggaaca | catgttgaga | atcattgttt | 1080 |
| actaattaaa  | tgccaggtaa  | ccgttgaaat | tatcaaaaac | atcttccacg | taccagaaag | 1140 |
| cactcagagg  | atagtctgtg  | tatggagaag | atgaaatggg | ttagtagtgt | aggaactatg | 1200 |
| gaaaggtgag  | cttagatttg  | gatagtaaaa | cctcaagacc | ctatttaaaa | agtattttat | 1260 |
| gaatgcagca  | taaataattt  | aattcagtgt | taaatgccaa | ggctagtata | ttgagctgaa | 1320 |
| tgtgaaaaga  | aactcacatt  | gggagaatgc | caccttttcc | ttataagata | gctttgaaga | 1380 |
| taccatttta  | gacagatgga  | aattgaatag | ctttagaaaa | ggcaaagtgt | tgatcttggg | 1440 |
| gaaaaaaaaa  | aaaaaaaaa   |            |            |            |            | 1458 |

<210> 197  
 <211> 1282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (675)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1195)  
 <223> n equals a,t,g, or c

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| <400> 197   |             |            |             |            |             |      |
| gaaaaaaaaa  | agtatgaccc  | agtagctagg | cacctgtggc  | cccgccaagt | tgacacataa  | 60   |
| aattaactgt  | cacagtatca  | tcttagaagt | gaaagaagcc  | cctttatcct | gcagtgtccc  | 120  |
| tctaccacca  | cctactgaca  | aagaacatgg | tgctatctgg  | catgggagaa | atgttcagtt  | 180  |
| tgctatggct  | tgtatgtgtc  | ccctcaaatt | caagtgttgc  | caatgtgaca | gcacaaagag  | 240  |
| gtgggggtct  | taagagatca  | ctaggccatg | agggattctc  | ttaggactgg | gatgaaggcc  | 300  |
| cataataaaa  | gagggtttcag | ggagcatcct | gctagcttgc  | cttctgtatg | tgagaacaca  | 360  |
| gcaagaaagc  | cctagtcaac  | aagtgccagc | tccttgatct  | tagacttccc | atcctccaga  | 420  |
| actgtgagaa  | atacatttct  | gttccttaca | aattaccocag | tctcctgrat | tctgttatag  | 480  |
| cagcacaaaa  | tgaagatacc  | atacctgaac | acctgaacat  | tcttcacaag | gtagtaaatg  | 540  |
| cactgcttta  | ttctgggtctc | agtattgtgt | gcttaataag  | gaaatgagaa | agggtggatc  | 600  |
| aggggcatagg | atgaacaagt  | tactgctaga | cctctcacia  | tgccactaat | ggataagatt  | 660  |
| gtattttcat  | cattncttgc  | ctcttcggaa | gctaacacca  | tgctataata | ggcactaaat  | 720  |
| agatgtctaa  | aaacacctta  | agtatttgtc | tagaaatctg  | gtgcatgtgc | cagaaagaac  | 780  |
| caaaatttcta | aataatttca  | aagggcctaa | agcactaktt  | aatcmaaatc | cattagctttc | 840  |
| taatgggtact | accactctca  | aattttaaaa | gtcatcttac  | gttctctctc | ctcgcatggg  | 900  |
| atctatttgc  | aaaacctggg  | aaacacttta | atccytttca  | attccattac | cactgctctt  | 960  |
| gtccagaatt  | actgcagac   | taatagtcac | ctgacttctc  | ccccgtcatc | ccgatttgc   | 1020 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| gtctaattct  | ggttacaaat | aagtaactgc | caaactaact | tttctaaaaa | gcaagactga | 1080 |
| tctcgtcact  | cctttgctca | acaatgtaaa | agctcccatt | gtctcccaaa | taaaaccagc | 1140 |
| tttccactgt  | gtatacaata | catccatgat | ctgtatccag | catcattttg | tattngctca | 1200 |
| cctttatacac | caccccccat | gccacatcaa | attaaattat | cctgataaat | gcaactgcaa | 1260 |
| aaaaaaaaaa  | aaaaaaactc | ga         |            |            |            | 1282 |

<210> 198  
 <211> 951  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |             |             |     |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| <400> 198   |             |            |            |             |             |     |
| atctcggaac  | gaggactgaa  | gtgggagcgg | cggcagggta | gaagacagaa  | gggggatcta  | 60  |
| tgtggtaact  | aaagaatggt  | tctgttttgt | taattactgt | gtgtgtgtgg  | ttttatttgt  | 120 |
| tgcttaagag  | aatcaaaaac  | tgaaaaaaat | gagaatacag | gaaatggctc  | ttgtttatct  | 180 |
| ttttgctgtg  | tttacagctt  | gttaatgctc | tactgtcttt | gtttcaagag  | agatttgctc  | 240 |
| actgcccagc  | tcgttttgtg  | tcctgagccc | tatgcccagc | ccaccttata  | aatcatgcct  | 300 |
| gttttagatgt | ttgattttgt  | tctgttttgt | attgttatct | taaagggtgt  | taactctgac  | 360 |
| atgccagaca  | tcaaattaag  | ctcaaattaa | gctctcgttt | aaatgtttta  | acaccttaatt | 420 |
| tatattctaa  | ttgatccag   | ccactgatgc | atgtacttta | gctactttct  | ctaaataagc  | 480 |
| atattaattt  | tcacatcag   | gccatcagat | cttgagaacc | aacagttatc  | tagaattccg  | 540 |
| tgtctactaa  | tgtttcacct  | gcatgcagcc | ttcattaatt | ttgtagcaaa  | atataaagtg  | 600 |
| atcattatgt  | agttttctgga | ttaaaaaaat | ttgtgtgtga | agttgctttg  | taaagtgcac  | 660 |
| gtggaattaa  | tgggacagtg  | tgccctttgt | gttagatgtt | agagcaaaag  | aaagggctta  | 720 |
| tagtgttagt  | attggagcac  | tttgaagata | gatattttca | gaaaagatgt  | aggatttaaa  | 780 |
| agttaaattt  | taaattttag  | aaaaagatat | gatggcaatt | ggaaatagtc  | acaatgaagt  | 840 |
| tcttcatcca  | gtaggtgttt  | aacagtggtt | ttttgccact | ggtaaatgtgt | aaactgtgag  | 900 |
| tgattttacaa | taaatgatta  | tgaattcaaa | aaaaaaaaaa | aaaaaaactcg | a           | 951 |

<210> 199  
 <211> 1740  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1310)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1736)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1737)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 199  |            |            |            |            |             |     |
| ttattataat | aatgatgatg | attccaagga | aaaaacctac | agcgaatgtt | ccattttctac | 60  |
| cccgacgca  | gacactctcc | ctaactctga | taacctgagc | ccccagcact | ggacggaaga  | 120 |
| atgctggcgt | ctccgtgtgt | actggttcag | ggttctggcc | ccagccttgt | caggaccccc  | 180 |
| tggtgtccag | agccccacc  | cctcccgcaa | caagcagctg | atgccccagt | gattctctat  | 240 |
| acatttttca | cctcgcccaa | tatgtccagg | aaaactgctt | acttctcttt | tcttgccctgg | 300 |
| agccttcatt | gttcaccctt | acgttgcaat | ataggaatta | atgctacaaa | ataaaagtaa  | 360 |

|             |            |             |             |            |            |      |
|-------------|------------|-------------|-------------|------------|------------|------|
| agcttacctg  | aaaagtgc   | agtttggggc  | aattggtatct | acatctccca | ctgtgggaaa | 420  |
| accagcaaag  | catcaaaact | ctcaattctc  | ctgttaccra  | atgcagatct | gaattataag | 480  |
| atgtttatgt  | ttgaccattg | tttcaacaat  | gggattttgt  | tacgaattat | ccctttaact | 540  |
| gaaacccctca | gttttactgt | ttacattatt  | aggaaaacag  | ggatatcttt | tgaatctaaa | 600  |
| aattttgatgt | acagcatgtg | atttttgaag  | tttcatgtta  | aagtcacagt | ataggtgaaa | 660  |
| taacgtttgt  | catattttga | gacgtatcct  | gcagccatgt  | ttttacgtga | gtgttttagt | 720  |
| caaagtacat  | ggtagacagt | ctttcacaa   | aaaaggaaaa  | ggattttttt | tcttccaaat | 780  |
| gtacattttat | caacctaagt | attgactttt  | ttaaaaagag  | atttcgcccc | agtctgggtt | 840  |
| atgaaagtcc  | attgccctaa | actgtgctga  | ttgttttttaa | tcaagttata | aatttccaac | 900  |
| ctagatcatg  | tatctaccaa | ctctcctgca  | ttttccaaaa  | ggcattgagc | ttaaatatta | 960  |
| gtcttgctta  | gagtaggtta | tccacttaaa  | tgctgcgcta  | aagccatgcc | tttgaaactc | 1020 |
| cttgttttaaa | acatgatatg | attttctgtg  | gcagtttcag  | aaaagaaaac | aaacaaacaa | 1080 |
| aaatcgaccc  | tttaattatt | acttgcaact  | caacagatct  | ccctgccgta | ctgccttttc | 1140 |
| caggaaacttt | acttcagggc | tgtccagatt  | gcagttgtgc  | ccctgtgatg | tggatctagt | 1200 |
| tcacagagtc  | tttggaagcc | agcagtcgtg  | ccctccgtat  | actgtccact | cattttatgt | 1260 |
| agatttggtta | tcttcagcag | ccagtgttaa  | caccactgtc  | acgtagttaa | cagattcatc | 1320 |
| ttttatgtat  | ctaaagtaat | ccatactatg  | atttggtttt  | tccctgcacc | attaattctg | 1380 |
| gcacagatc   | agtttttgtg | ttgtgaagtt  | ctactgtggg  | ttgacccaag | accacaacca | 1440 |
| tgagaccctg  | aagtaaaagt | aaggtacaca  | tacattatct  | gagtaactgt | ttccttgggg | 1500 |
| gccaatctgt  | gtatgctttt | agaagtgtac  | agaatgcttt  | tatttttgtc | tataacaaac | 1560 |
| agtctgtcat  | ttatttctgt | tgataaacca  | tttgacagag  | gtgaggacgt | ttgcctgttt | 1620 |
| atctcctagt  | gctaacaata | cactccagtc  | atgagccggg  | ctttacaaat | aaagcacttt | 1680 |
| tgatgactca  | maaaaaaaaa | aaaaaaaaamc | ycggggggggg | gcgggtaacc | catttncccc | 1740 |

&lt;210&gt; 200

&lt;211&gt; 1707

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 200

|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| gcttatagaa  | gggagaggag | cgaacatggc  | agcgcgttgg | cggtttttgg  | gtgtctctgt  | 60   |
| gaccatgggtg | gtggcgctgc | tcacgttttg  | cgacgttccc | tcagcctctg  | cccaaagaaa  | 120  |
| gaaggagatg  | gtgttatctg | aaaagggttag | tcagctgatg | gaatggacta  | acaaaagacc  | 180  |
| tgtaataaga  | atgaatggag | acaagttccg  | tcgcctctgt | aaagccccac  | cgagaaatta  | 240  |
| ctccgttatc  | gtcatgttca | ctgctctcca  | actgcataga | cagtgtgtcg  | tttgcaagca  | 300  |
| agctgatgaa  | gaattccaga | tcctggcaaa  | ctcctggcga | tactccagtg  | cattcaccaa  | 360  |
| caggatatttt | tttgccatgg | tggattttga  | tgaaggctct | gatgtatttc  | agatgctaaa  | 420  |
| catgaattca  | gctccaactt | tcacaaactt  | tcctgcaaaa | gggaaaacca  | aacgggggtga | 480  |
| tacatatgag  | ttacaggtgc | gggggtttttc | agctgagcag | attgcccggg  | ggatcgcgca  | 540  |
| cagaactgat  | gtcaatatta | gagtgattag  | acccccaaat | tatgctgggc  | cccttatgtt  | 600  |
| gggattgctt  | ttggctgtta | ttgggtggact | tgtgtatctt | cgaagagtaa  | tatggaattt  | 660  |
| ctcttttaata | aaactggatg | ggcttttgca  | gctttgtgtt | ttgtgcttgc  | tatgacatct  | 720  |
| ggtcaaatgt  | ggaaccatat | aagaggacca  | ccatatgccc | ataagaatcc  | ccacacggga  | 780  |
| catgtgaatt  | atatccatgg | aagcagtcac  | gccagtttgc | tagctgaaac  | acacattgtt  | 840  |
| cttctgttta  | atgggtggag | taccttagga  | atgggtgctt | tatgtgaagc  | tgctacctct  | 900  |
| gacatggata  | ttggaaagcg | aaagataatg  | tgtgtggctg | gtattggact  | tgttgtatta  | 960  |
| ttcttcagtt  | ggatgctctc | tattttttaga | tctaaatata | atggctaccc  | atacagcttt  | 1020 |
| ctgatgagtt  | aaaaaggtcc | cagagatata  | tagacactgg | agtactggaa  | attgaaaaac  | 1080 |
| gaaaatcgtg  | tgtgtttgaa | aagaagaatg  | caacttgtat | atttttgtatt | acctcttttt  | 1140 |
| ttcaagtgat  | ttaaatagtt | aatcatttaa  | ccaaagaaga | tgtgtagtgc  | cttaacaagc  | 1200 |
| aatcctctgt  | caaaatctga | ggtatttgaa  | aataattatc | ctcttaacct  | tctcttccca  | 1260 |
| gtgaacttta  | tggaacattt | aatttagtac  | aattaagtat | attataaaaa  | ttgtaaaact  | 1320 |
| actactttgt  | tttagttaga | acaaagctca  | aaactacttt | agttaaactg  | gtcatctgat  | 1380 |
| tttatattgc  | cttatccaaa | gatggggaaa  | gtaagtcctg | accaggtgtt  | cccacatatg  | 1440 |
| cctgttacag  | ataactacat | taggaattca  | ttcttagctt | cttcactctt  | gtgtggatgt  | 1500 |
| gtatacttta  | cgcactcttc | cttttgagta  | gagaaattat | gtgtgtcatg  | tggtctctctg | 1560 |
| aaaatggaac  | accattcttc | agagcacacg  | tctagccctc | agcaagacag  | ttgtctctcc  | 1620 |



tcttccttgc atatttccca ctgaaataca gtgctgtcta tgattgttct tgttttgttg  
 ttttttygag atcacgytac tgggctc

1680  
 1707

<210> 201  
 <211> 779  
 <212> DNA  
 <213> Homo sapiens

<400> 201  
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 tcgtcctctt cacagatgcc acgttgccagc cccaaggcct caccattttg cgtttttttag 180  
 aaacccattt tcttggtcat ttataaagct gctttataga tatctttgat cctggcatgc 240  
 cttggtttcc tctcccttcc ctctttccaa tccgtggttc ctaacctcct cttgtagtaa 300  
 ttctcaactc aactcaaagt cccaagaatt tgggaatggta ggatgctgtg cggggagctc 360  
 gaggctgagg cataatcact gcttcgggtc tgctcatcag gggacacgct cccttactca 420  
 tggcagccat gtttgattgt cacagagccc cccgaatact ctgtctatag tgacacactg 480  
 taggtgtcat aaatttttaag aaacctgctt ttaagtacta tttatagggt tttctgttat 540  
 acttgcaacc tagtttttaa atacatgagg attttatgaa agcttttatac agacatttat 600  
 aggaaactca ttctttgatt ttaggtgcca tttaaattga taacacttac ttataaaaaa 660  
 gatgcttttt gtctggatag agccttatag tttaaaatat ctcatatat tgccatttga 720  
 tcaaataaat ttcttactta gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaactcga 779

<210> 202  
 <211> 1617  
 <212> DNA  
 <213> Homo sapiens

<400> 202  
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 cgcgttctct aaactaacta tttaaaggct tgcggtcgca aatgggttga ctaaactgtg 180  
 gatgggactt aagttgaacg gcagatatat ttcaactgac ctgcgggtgc aaatagcgta 240  
 tctggtgcag gccgtgagag cagcgggcaa gtgcgatgag gtcttcaagg gcttttcgga 300  
 ctgtttgtct aagctgggag acacatggcc aactaccgac agcctgggac gacaagacga 360  
 acatcaagac cgtgtgcaca tactgggagg atttccacag ctgcacgggt acagccctta 420  
 cggattgcca ggaaggggag aaagatatgt gggataaact gagaaaagaa tccaaaaacc 480  
 tcaacatcca aggcagctta ttcgaaactct gcggcagcgg caacgggggag ggggggtccc 540  
 tgctcccgag gtcccggtg ctccctgggt ctctctcggc agcttttagc acctggcttt 600  
 ccttctgagc gtggggccag ctcccccgcc gcgcccaccc acactcactc catgctcccg 660  
 gaaatcgaga ggaagatcca ttagttcttt ggggacgttg tgatctcttg tgatgctgaa 720  
 aacactcata taggattgtg ggaaatcctg attctctttt ttatttcggt tgatttcttg 780  
 tgtttttatt gccaaatgtt accaatcagt gagcaagcaa gcacagccaa aatcggacct 840  
 cagcttttagt ccgtcttcac acacaaataa gaaaacggca aacccacccc attttttaat 900  
 tttattatta ttaatttttt ttgttgcaa aagaatctca ggaacggccc tgggcaccta 960  
 ctatattaat catgctagta acatgaaaaa tgatgggtct ctccataatg gaaggcgagg 1020  
 agaggagaag gccaggggaa tgaattcaag agagatgtcc acggacgaaa catacgggtg 1080  
 ataattcacg ctacgtcgt tctccacag tatcttgttt tgatcatttc cactgcacat 1140  
 ttctcctcaa gaaaagcgaa aggacagact gttggctttg tgcttgagg ataggaggga 1200  
 gagaggggag gggctgagga aatctctggg gtaagagtaa aggcctccag aagacatgct 1260  
 gctatggtea ctgaggggtt agctttatct gctgtgtgtg atgcatccgt ccaagttcac 1320  
 tgcctttatt tccctcctc cctcttgttt tagctgttac acacacagta atacctgaat 1380  
 atccaacggt atagatcaca agggggggat gttaaatgtt aatctaaaaa atagctaaaa 1440  
 aaagattttg acataaaaaga gccttgattt taaaaaaaaa agagagagag atgtaattta 1500  
 aaaagtttat tataaattaa attcagcaaa aaaagatttg ctacaaagta tagagaagta 1560  
 taaaataaaa gttattgttt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggaat 1617

<210> 203  
 <211> 1974  
 <212> DNA  
 <213> Homo sapiens

<400> 203  
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 cgtagggtgc gcacgaggag ttttcccggc agcgaggagg tcctgagcag catggcccgg 120  
 aggagcgcct tccctgccgc cgcgcctctg ctctggagca tcctcctgtg cctgctggca 180  
 ctgcgggcgg aggcggggcc gccgcaggag gagagcctgt acctatggat cgatgctcac 240  
 caggcaagag tactcatagg atttgaagaa gatatacctga ttgtttcaga ggggaaaatg 300  
 gcacctttta cacatgattt cagaaaagcg caacagagaa tgccagctat tcctgtcaat 360  
 atccattcca tgaattttac ctggcaagct gcaggggcagg cagaatactt ctatgaattc 420  
 ctgtccttgc gtcctctgga taaaggcatc atggcagatc caaccgtcaa tgtccctctg 480  
 ctgggaacag tgcctcaciaa ggcacagatt gttoaagttg gtttcccatg tcttgaaaaa 540  
 caggatgggg tggcagcatt tgaagtggat gtgattgtta tgaattctga aggcaacacc 600  
 attctccaaa cactcaaaa ctttttgaat tttaaaacat gtcaacaagc tgagtgccca 660  
 ggcggggtgc ttccacggac ctactctgta gaaagccctt tgtacccac gatgtatgaa tgggtggact 720  
 ttccacggac ctactctgta gaaagccctt tgtacccac gatgtatgaa tgggtggact 780  
 tgtgtgactc ctggtttctg catctgccc cctggattct atggagtga ctgtgacaaa 840  
 gcaaaactgct caaccacctg ctttaaatgga gggacctgtt tctacctggg aaaatgtatt 900  
 tscctccag gactagaggg agagcagtg gaaatcagca aatgcccaca accctgtcga 960  
 aatggaggta aatgcattgg taaaagcaaa tgtaagtktt ccaaagggtta ccaggagac 1020  
 ctctgttcaa agcctgtctg cgagcctggc tgtggtgcac atggaacctg ccatagaacc 1080  
 aacaaatgcc aatgtcaaga aggttggcat ggaagacact gcaataaaaag gtacgaagcc 1140  
 agcctcatal atgccctgag gccagcaggc gccagctca ggcagcacac gccttactt 1200  
 aaaaaggccg aggagcggcg ggatccacct gaatccaatt acatctgggtg aactccgaca 1260  
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 gttcaaataa tgttcattac acttaagaat actggcctga attttattag cttcattata 1380  
 aatcactgag ctgatattta ctcttcttt taagtcttct aagtacgtct gtagcatgat 1440  
 ggtatagatt ttcttgtttc agtgcttttg gacagatttt atattatgtc aattgatcag 1500  
 gttaaaattt tcagtgtgta gttggcagat attttcaaaa ttacaatgca tttatgggtg 1560  
 ctggggggcag gggaacatca gaaagggtta attgggcaaa aatgcgtaag tcacaagaat 1620  
 ttggatgggtg cagttaatgt tgaagttaca gcatttcaga ttttattgtc agatatttag 1680  
 atgtttgtta cattttttaa aattgctctt aattttttaa ctctcaatac aatatatttt 1740  
 gacctacca ttattccaga gattcagtat taaaaaaaaa aaaattacac tgtggtagtg 1800  
 gcatttaaac aatataatat attctaaaca caatgaaata gggaatataa tgtatgaact 1860  
 ttttgcattg gcttgaagca atataatata ttgtaaacaa aacacagctc ttacctata 1920  
 aacattttat actgtttgta tgtataaaat aaaggtgctg ctttagtttt ctga 1974

<210> 204  
 <211> 1057  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (50)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (132)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (751)  
 <223> n equals a,t,g, or c

<400> 204

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| cggccttccg | gggcaaccgt | tcgtcccaac  | nogggaaagg | gtcctggagn  | cgggaaactag | 60   |
| gagcctcgga | agtccaaggg | cggagcgccc  | tttgctaata | agccaatcag  | aacgtgagac  | 120  |
| gctccggtgg | gncggtgccg | tcgagcgccg  | ggtggagtc  | gggtgacttg  | gctggcgggg  | 180  |
| tcaagtgcag | ctgcttcagg | ctgaggtggc  | agatagtgag | cgctgggtggc | ggagttaaag  | 240  |
| tyaaagcagg | agagtaatwa | tgaatagcgc  | agcgggattc | tcacacctag  | accgtcgcg   | 300  |
| gcgggtttct | aagttagggg | agagtttcga  | gaagcagccg | cgctgcgctt  | ccacactgtg  | 360  |
| cgctatgact | tcaaacctgc | ttctattgac  | acttcttctg | aaggatacct  | tgagkttggc  | 420  |
| gaagktgaac | agktgaccat | wactctgcom  | aatatagaaa | gttgaaggaa  | gcagtaaaat  | 480  |
| tcagtatcgt | aaagaacaac | agcaacaaca  | atgtggaatt | casccaggac  | tcccaatctt  | 540  |
| gtaaaacatt | ctccatctga | agataagatg  | tccccagcat | ctccaataga  | tgatatcgaa  | 600  |
| agagaactga | aggcagaagc | tagtctaatt  | gaccagatga | gtagttgtga  | tagttcatca  | 660  |
| gattccaaaa | gttcattcat | ttcaagtagt  | gaggatagtt | ctagtgaact  | agaagatgaa  | 720  |
| gattgcaaat | cctctacttc | tgatacaggg  | naattgtgtc | tcaggacatc  | ctaccatgac  | 780  |
| acagtacagg | attcctgata | tagatgccag  | tcataataga | tttcgagaca  | acagtggcct  | 840  |
| tctgatgaat | actttaagaa | atgattttgc  | gctgagtga  | tcaggaagtg  | acagtgatga  | 900  |
| ctgaagaaat | atttagctat | aaataaaaaat | ttatacagca | tgtataat    | attttgtatt  | 960  |
| aacaataaaa | attcctaaga | ctgagggaaa  | tatgtcttaa | cttttgatga  | taaaagaaat  | 1020 |
| taaatttgat | tcagaaaaaa | aaaaaaaaaa  | aactcga    |             |             | 1057 |

<210> 205  
 <211> 721  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (264)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (340)  
 <223> n equals a,t,g, or c

<400> 205

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| gaattcggca  | cgagtcaccc  | ctctccctct  | ttcactccct | tactcttact | ctgttttttg | 60  |
| tgctccagac  | agacagaccc  | tacctctttt  | gcttcttttt | tgtttgtttg | ttttgagatg | 120 |
| gagtgctcgt  | cttggttgccc | aggctggagt  | gcagtgccgc | aatctcggct | caccacaacc | 180 |
| tctgcctccc  | gggtccaagc  | aattctcctg  | cctcagcctc | ccgagaagct | ggggattaca | 240 |
| ggcatgcgcc  | accacaccca  | gctnaatttt  | atatttttag | tagagatggg | gtttctccat | 300 |
| gttggtcagg  | ctggcctcaa  | actcccaacc  | tcaggtgatn | ccgcctgctt | tggcctcccc | 360 |
| aaagtgcctg  | gattacaggg  | gtgagccact  | gcgcccagcc | tcttttgctc | ctttatactc | 420 |
| attaactcac  | gcctgtaatc  | cctgttttgg  | gaggccaaag | tgagaagggt | gcttgaggcc | 480 |
| aagagtttga  | gactagcctg  | ggcaacacag  | caagatgcc  | tctttataat | aaaaataaaa | 540 |
| ataaaaaatca | attagctggg  | catgggtggaa | cgcacctgta | gtcccagcca | attgagagcc | 600 |
| tgaagtggga  | ggatcattga  | gcccaggagt  | cgaggttgca | gtgagccatg | atcatgtcac | 660 |

tacactcagc ctgggcaata gagggacatg ttgtctctaa aaaaaaaaaa aaaaaactcg 720  
a 721

<210> 206  
<211> 2465  
<212> DNA  
<213> Homo sapiens

<400> 206  
ccaccatttta tccaactgaa gaggagttac aggcagttca gaaaattggt tctattactg 60  
aacgtgcttt aaaactcgtt tcagacagtt tgtctgaaca tgagaagaac aagaacaaag 120  
agggagatga taagaaagag ggaggtaaag acagagcttt gaaaggagtt ttgcgagtgg 180  
gagtattggc aaaaggatta cttctccgag gagatagaaa tgtcaacott gttttgctgt 240  
gctcagagaa accttcaaag acattattaa gccgtattgc agaaaaccta cccaaacagc 300  
ttgctgttat aagccctgag aagratgaca taaaatgtgc tgtatctgaa gcggcaataa 360  
ttttgaattc atgtgtggaa ccctaaaatgc aagtcactat cactctgaca tctccaatta 420  
ttcgagaaga gaacatgagg gaaggagatg taacctcggg tatggtgaaa gacccaccgg 480  
acgtcttgga caggcaaaaa tgccttgacg ctctggctgc tctacgccac gctaagtggg 540  
tccaggctag agctaattgg ctgcagtcct gtgtgattat catacgcatt cttcgagacc 600  
tctgtcagcg agttccaact tggctctgatt ttccaagctg ggctatggag ttactagtag 660  
agaaagcaat cagcagtgct tctagccctc agagccctgg ggatgcactg agaagagttt 720  
ttgaatgcat ttcttcaggg attattctta aaggtagtcc tggactttct gatccttctg 780  
aaaaggatcc ctttgatacc ttggcaacaa tgactgacca gcagcgtgaa gacatcacat 840  
ccagtgcaca gtttgcatth agactccttg cattccgcca gatacacaaa gttctaggca 900  
tggatccatt accgcaaag agccaacgtt ttaacatcca caacaacagg aaacgaagaa 960  
gagatagtga tggagtgtat ggatttgaag ctgaggggaa aaaagacaaa aaagattatg 1020  
ataactttta aaaagtgtct gtaaatcttc agtggttaaaa aaacagatgc ccatttgttg 1080  
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catggaagaa ccaagttttt ctatgatatt aaaaaatgta cagtgttagg tattatttga 1200  
atggaaagac acccaaaaaa aaaaatgtgc tccgactagg gggaaaacag tagttccgat 1260  
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gcttcagttg ctctgtgtat ttgtatattt taatttagag gttttgtttg ctttttgaca 1440  
ctagttgtaa gttactttgt tatagatggg atcctttacc cttctttaat attttacagc 1500  
agtacgtttt tttgtaacgt gagactgcag agtttgtttt tctatatgtg aaggattaca 1560  
acacaaaaag ttatcctgcc attcgagtgc tcagaactga atgtttctgc agatcttctg 1620  
gcatttgtct ctagtgtgat atataaaggt gtaattaaga cagagttctg ttaatctaata 1680  
caagtttgct gttagtgtg cattagcagt ataaaagcta atatatacta tatgggtctg 1740  
caacagtttt aaagcctctg cataattgat aataaaaaat catgacattc ttgtttttaa 1800  
tagactttta aaatcataat ttttaggttta acacgtagat ctttgtacag ttgacttttt 1860  
gacatagcaa ggccaaaaat aactttctga atattttttt cttgtgtata agtggaagg 1920  
gcatttttca catataagtg ggctaacc aa tattttcaaa agaacttcatt cattgtacaa 1980  
ctaacaacag taactagccc ttaattatgg tgacagttcc ttattggtgt gtgtgagatt 2040  
actctagcaa ctattacagt ataacacaga tgatcttctc cacacacccc atcaccacaga 2100  
taatttacag ttctgttaac agtgaggttg ataaagtatt actgataaaa aattatctaa 2160  
ggaaaaaaac agaaaattat ttgggtgtggc catcttacct gcttatgtct cctacacaaa 2220  
gctaaatatt ctagcagtg tgtaatgaaa aattacatct tactgttgat atatgtatgc 2280  
tctgggtacac agatgtcatt ttgtgtcac agcactacag tgaaatacac aaaaaatgaa 2340  
attcatataa tgacttaaat gtatttatat ttagaattga caacataaac tacttttgct 2400  
ttgaaatgat gtatgcttca gtaaaatcat attcaaattt aaaaaaaaaa aaaaaaaaaa 2460  
ctcga 2465

<210> 207  
<211> 1480  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 207

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| gaattcggca  | cgagctcaag  | ctggcaggtg | gtcgggggag | cggcgggaga  | ggagctgccg  | 60   |
| ggagttcgtg  | ccctgcagga  | catgacacca | gtggcatatc | acggccatgg  | ggctctcagca | 120  |
| ttccgctgct  | gctcgccctt  | cctcctgcag | gcgaaagcaa | gaagatgaca  | gggacggttt  | 180  |
| gctggctgaa  | cgagagcagg  | aagaagccat | tgctcagttc | ccatatgtgg  | aattcaccgg  | 240  |
| gagagatagc  | atcacctgtc  | tcacgtgcca | ggggacaggc | tacattccaa  | cagagcaagt  | 300  |
| aaatgagttg  | gtggctttga  | tcccacacag | tgatcagaga | ttgogccctc  | agcgaactaa  | 360  |
| gcaatatgtc  | ctcctgtcca  | tcctgctttg | tctcctggca | tctggttttg  | tggttttctt  | 420  |
| cctgttttccg | cattcagttc  | ttgtggatga | tgacggcatc | aaagtgggtga | aagtcacatt  | 480  |
| taataagcaa  | gactcccttg  | taattctcac | catcatggcc | accctgaaaa  | tcaggaactc  | 540  |
| caactttctac | acgggtggcag | tgaccagcct | gtccagccag | atrcagtaca  | tgaacacagt  | 600  |
| ggtgaatttt  | accgggaagg  | ccgagatggg | aggaccgttt | tcctatgtgt  | acttcttctg  | 660  |
| cacggtacct  | gagatccctg  | tgcacaacat | agtgatcttc | atgcgaactt  | cagtgaagat  | 720  |
| ttcatacatt  | ggcctcatga  | cccagagctc | cttggagaca | catcactatg  | tggattgtgg  | 780  |
| aggaaattcc  | acagctattt  | aacaactgct | attggttctt | ccacacagcg  | cctgtagaag  | 840  |
| agagcacagc  | atatgttccc  | aaggcctgag | ttctggacct | accccccacgt | ggtgtaagca  | 900  |
| gaggaggaat  | tggttcactt  | aactcccagc | aaacatcttc | ctgccactta  | ggaggaaaca  | 960  |
| cctccctatg  | gtaccattta  | tgtttctcag | aaccagcaga | atcagtgcct  | agcctgtgcc  | 1020 |
| cagcaaatag  | ttggcactca  | ataaagattt | gcagaattta | atacagatct  | tttcagctgt  | 1080 |
| tcttagggca  | ttataaatgg  | aaatcataac | gtggttctag | gttatcaaac  | catggagtga  | 1140 |
| tgtggagcta  | ggattgtgag  | tgacctgcag | gccattatca | gtgcctcatc  | tgtgcagaag  | 1200 |
| tcgcagcaga  | gagggaccat  | ccaaatacct | aagagaaaac | agacctagtc  | aggatatgaa  | 1260 |
| tttgtttcag  | ctgttcccaa  | aggcctggga | gctrtttgaa | aagaaagaaa  | aaagtgtggt  | 1320 |
| ggcttttttt  | tttttttagaa | agttagaatt | gtttttacca | agagtctatg  | tggggcttga  | 1380 |
| ttcacccttc  | atccattggc  | tggaacatgg | attggggatt | tgatagaaaa  | ataaaccctg  | 1440 |
| cttttgattc  | aaaaaaaaaa  | aaaaawaaa  | aaaaactcga |             |             | 1480 |

&lt;210&gt; 208

&lt;211&gt; 872

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (422)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (847)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (856)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (872)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 208

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| cagtattttcc | ctcagtactg | taagcaaaaag | tggtatgttt  | ttctttcttt | atgtctactc | 60  |
| tgtcctctgt  | ggccttctgg | tgtacccctc  | tcttccctagc | cattcagttc | ctctagtcac | 120 |
| ctccctagta  | gctagtgtct | tctaagtttt  | tatttaatta  | gaacaactcc | atctccattt | 180 |

|            |             |             |             |             |             |     |
|------------|-------------|-------------|-------------|-------------|-------------|-----|
| caaggtaggt | caatgggggg  | aaaagcctca  | tgattttaaac | tgaagttaac  | aacacagctt  | 240 |
| ttaaaatgaa | aactcatact  | ccaacttcta  | aagtatat    | gagctgattt  | gtttccaaaa  | 300 |
| caaagatatg | ctgtacctaa  | aactgctaaa  | acaaaaatat  | aaagacaagg  | actaggtgat  | 360 |
| taaggggaga | gaaaaatcat  | ytctttttcca | ggaaaccttt  | gctaaaaataa | gcaaaaccttg | 420 |
| antctatgct | tcatggaaac  | tgacacaaaag | aaaagaaaact | gatggattgc  | acaggccttg  | 480 |
| ttatagaaat | agatctataa  | aaagatctgt  | ccacaggaaa  | tatacacctt  | ctcctggttc  | 540 |
| tgaacttcaa | tggggatttg  | tcacctaggt  | ctccatctat  | aggaatacct  | tcacatacct  | 600 |
| atctattcat | gcacatatct  | tgaaaacagg  | tacatacaaa  | attacaacaa  | aggaaaaaaa  | 660 |
| ttctattgaa | cactttaaaaa | tagaaacagg  | ccaggcacgg  | tggctcatgc  | tgtaatccca  | 720 |
| acaatttggg | aggctgaggc  | tgggtgatca  | cctgaggcca  | ggagtgtgag  | accagcttgg  | 780 |
| ccaacatggt | gaaaccccg   | cactactaaa  | aatacaaaaa  | aaattagcct  | gtgtggtggc  | 840 |
| acactcntac | aatcconggt  | gactcgggaa  | an          |             |             | 872 |

&lt;210&gt; 209

&lt;211&gt; 1779

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 209

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aattgccaaag | actgcacaaa  | attacagtgc  | taatgtatat  | ggttgcagtt  | cacataaaga  | 60   |
| caaaagcatc  | tgttatgaaa  | tgagtagtaa  | tattgggtgg  | ttgatttggt  | ctragcagac  | 120  |
| ttggcttcat  | wttggtcttg  | agataaaatg  | gccagcataa  | atgctgttta  | tattcacgtt  | 180  |
| ttcctaggtg  | tgtgtgtgca  | ggccacagca  | gcctgccctt  | ggtgtagtca  | gtgccgaaas  | 240  |
| gggtctgttc  | cttcttgagc  | ctgcctgcag  | ggatggtctc  | cttttaaagc  | aggttgtgtg  | 300  |
| cagcattcag  | tacactgaag  | gtaagctaaa  | ccatcaacat  | ctctgggtgt  | ttaagatgtt  | 360  |
| attttattgg  | aacaactgac  | aaatgaggga  | tgtagctttt  | gtggcagaat  | tccctgcatg  | 420  |
| tgtgataact  | gatcttgttt  | tatttttttg  | cattgcaact  | gtggcatagt  | tacaatttct  | 480  |
| gtttgkrcat  | cacattttaa  | actggragag  | aacgcgcttg  | akggatagag  | cgcttcagk   | 540  |
| gtactgtttc  | ttattaactt  | tacttttttt  | aatcaactt   | gctatagact  | ttatatacat  | 600  |
| tttggttaa   | atagtttcta  | gtgacataga  | aacgatgcgt  | agttttcatt  | tactaattac  | 660  |
| aaatgctgag  | gcctaattct  | gaaagtcttc  | atattttaag  | gctagacaac  | gtaatgaaat  | 720  |
| ttttaactat  | ttgtatgtca  | ttttgaaagt  | gtactgcttt  | atggtaaaag  | tgtttttcat  | 780  |
| ttgttcattg  | ttttcattat  | ttgtgatcat  | gttgtctttc  | aatacaggca  | taaaccttcc  | 840  |
| actcttgaac  | aaagcagctg  | cttttttaaa  | gcggtaattg  | cttctttacc  | ttttatttct  | 900  |
| tttgtaaatg  | aagcttttct  | ttaagaatgt  | gactttaaa   | tggtgtctat  | tgcataaaac  | 960  |
| agttgacact  | cacttattgt  | aaagtgaaga  | ttgtttctact | gcattgtgaag | tggaacctgc  | 1020 |
| agattttctgt | atgtttctcag | tatgcatcac  | tagataataa  | agtcttttgt  | gaacaaggca  | 1080 |
| tttgtagcca  | tttttaaaag  | tttttgtctt  | cagtgtctgg  | aagtcaggta  | aaccataaat  | 1140 |
| agttaaaagc  | aaccttttgt  | ttttttctct  | aaagttttta  | attgaaagta  | ttattagtta  | 1200 |
| aagatgtaaa  | cctagccaaa  | attaccagtt  | tattaataat  | taggattccta | attatttcaa  | 1260 |
| aaaatcctac  | aaatatgttc  | agcttttcagt | gtagtgtgat  | tattcctgta  | ggttatgggg  | 1320 |
| tataattcag  | gatttaacta  | atgtttctgc  | tattttctca  | cttttctctt  | tgatgggtgcg | 1380 |
| gaaagagaaa  | aaggaaaaacg | gggcacaggc  | catttcgacg  | cttctccaag  | gggtctgatt  | 1440 |
| tgctgagaca  | ccagcttcac  | cttcttaaca  | aggcacctaa  | ttacaacaag  | catgcacatt  | 1500 |
| ttggtgcatt  | caagaatgga  | aaatcagaat  | agcagcattg  | attcttctgg  | tgcatgctcag | 1560 |
| tggaagatga  | tgacaaccag  | aagacatgag  | ctaagggtaa  | gggactgttc  | tgaagaacct  | 1620 |
| ttccatttag  | tgatcaagat  | atggaagctg  | attttctgaa  | atgctcagtg  | tgtactctaa  | 1680 |
| ttattttatg  | taccatttga  | attgtaaact  | gcatttttag  | agtgcattgt  | tctaattgac  | 1740 |
| ttactgggaa  | actgaataaa  | atatgcctct  | tattatcaa   |             |             | 1779 |

&lt;210&gt; 210

&lt;211&gt; 2110

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
 <222> (750)  
 <223> n equals a,t,g, or c

<400> 210

|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| gcgggcgctg | cagccccggag | ctgagctagc | cgtccgagcc  | gagccgctccg | agccggggaa | 60   |
| gccggcgctg | gctgcccgtc  | gtggcgcca  | gaggagagga  | gaggcagcag  | catggcgagt | 120  |
| gtcctgtccc | gacgccttgg  | aaagcggctc | ctcctgggag  | cccgggtgtc  | gggacccagt | 180  |
| gcctcgagg  | ggcctcggct  | gccccaccct | cggagccact  | gctagaagg   | gccgctcccc | 240  |
| agcctttcac | cacctctgat  | gacaccccct | gccaggagca  | goccaaaggaa | gtccttaagg | 300  |
| ctcccagcac | ctcgggcctc  | cagcagggtg | cccttmagcc  | tgggcagaag  | gtttatgtgt | 360  |
| ggtacggggg | tcaagagtgc  | acaggactgg | tggwgcagca  | cagctggatg  | gagggtcagg | 420  |
| tgaccgtctg | gctgctggag  | cagaagctgc | aggtctgctg  | cagggtgagg  | gaggtgtggc | 480  |
| tggcagagct | gcagggcccc  | tgtccccagg | caccacccct  | ggagcccggg  | gcccaggccc | 540  |
| tggcctacag | gcccgtctcc  | aggaacatcg | atgtcccaaa  | gaggaagtcg  | gacgcatgga | 600  |
| aatggatgag | atgatggcgg  | ccatgggtgt | gacgtccctg  | tcctgcagcc  | ctgttgtaca | 660  |
| gagtcctccc | gggaccgagg  | ccaacttctc | tgttccccgt  | gcggcctcgg  | acccatggaa | 720  |
| ggagagtggg | gacatctcgg  | acagcggcan | cagcactacc  | agcggtcact  | ggagtgggag | 780  |
| cagtgggtgc | tccaccccct  | cgccccccca | cccccaggcc  | agccccaagt  | atttggggga | 840  |
| tgtttttggg | tctccccaaa  | ctgatcatgg | ctttgagacc  | gatcctgacc  | ctttcctgct | 900  |
| ggacgaacca | gctccacgaa  | aaagaaagaa | ctctgtgaag  | gtgatgtaca  | agtgcctgtg | 960  |
| gccaaactgt | ggcaaagttc  | tgcgctccat | tgtgggcctc  | aaacgacacg  | tcaaagccct | 1020 |
| ccatctgggg | gacacagtgg  | actctgatca | gttcaagcgg  | gaggaggatt  | tctactacac | 1080 |
| agaggtgcag | ctgaaggagg  | aatctgctgc | tgtctgtgct  | gctgctgccg  | cagaccccca | 1140 |
| gtccctggga | ctcccacctc  | cgagccagct | cccaccccca  | gcattgactg  | cctgcctctg | 1200 |
| tctgtctctc | caccacctct  | gcacaaaagg | cagtcctccg  | gcccagaaca  | tcctggcccg | 1260 |
| gagtcctccc | tgccctcagg  | ggctctcagc | aagtcagctc  | ctgggtcctt  | ctggcacatt | 1320 |
| caggcagatc | atgcatacca  | ggctctgcca | tccttcagga  | tcctcagctc  | accacacatc | 1380 |
| tacaccagtg | tcagctgggc  | tgtctgcccc | tcgcgcgctc  | gctctctmct  | tcgggtccgg | 1440 |
| agccggctgc | taagcttcag  | cgaagcccca | gcagccagca  | cctgcgatga  | aatctcatct | 1500 |
| gacgtcact  | tctccacccc  | gggcccagag | tgggtgccagg | aaagcccagg  | gggaggctaa | 1560 |
| gaagtgcgcg | aagtgtatgg  | catcgagcac | cgggaccagt  | ggtgcacggc  | ctgcgggtgg | 1620 |
| aagaaggcct | gccagcgctt  | tctggactga | gctgtgctgc  | aggttctact  | ctgttctctg | 1680 |
| ccctgcccgc | agccactgac  | aagaggccag | tgtgtcacca  | gccctcagca  | gaaaccgaaa | 1740 |
| gagaaagaac | ggaaacacgg  | agtttgggct | ctgttggcta  | aggtgttaaca | cttaaagcaa | 1800 |
| ttttctccca | ttgtgcgaac  | attttatatt | ttaaaaaaa   | gaaacaaaa   | tatttttccc | 1860 |
| cctaaaatag | gagagagcca  | aaactgacca | aggctattca  | gcagtgaacc  | agtgacccaa | 1920 |
| gaattaatta | ccctccgttt  | cccacatccc | cactctctag  | gggattagct  | tgtgcgtgtc | 1980 |
| aaaagaagga | acagctcggt  | ctgcttccct | ctgagtcggg  | gaattctttg  | ctttctaaac | 2040 |
| tcttocagaa | aggactgtga  | gcaagatgaa | tttacttttc  | ttaaaaaaa   | aaaaaaaaaa | 2100 |
| aaaaactcga |             |            |             |             |            | 2110 |

<210> 211  
 <211> 938  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (200)  
 <223> n equals a,t,g, or c

<400> 211

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ggcacaggaa | aaaaaagaaa | aaagaaaaaa | gaaaaaagtt  | tttgtaccca | cagattagca | 60  |
| ttttcttgat | gtttgaaaaa | agtttaagct | atgtcctaata | ttaaaaatga | gcacaaacta | 120 |
| cttaacagat | gtctgttccc | tottctctta | cttaaaattat | ctttattttc | accatcacct | 180 |
| cccagtgcgg | aacacctgan | ctctgtgttt | tgtgggtgga  | tcctgggttg | ccaagttcct | 240 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atttggtcag | tccctggcct | gtggggcggt | ctcaggaagt | ggcatgctct | tcamgragga | 300 |
| tcgttcatyt | ccagtataac | cawtttgta  | ataatagttg | ataattccca | gcttttacca | 360 |
| gatgartttt | gacttatttt | tccctctttg | acctgttcaa | agctaacata | tctcggtcag | 420 |
| ttcggagagg | gtgggggatt | tgagaatgtg | aggaggagtg | gggttagaat | gggtttgcct | 480 |
| atctgggcaa | ggaaagagtt | cctagtcgat | tgggcacaa  | gacaaaatga | ttccatggat | 540 |
| agaatcgtcc | catgttgctg | gaacacctca | cgtgttgga  | acgccttaaa | ttcctgccat | 600 |
| cccttctctg | attccccacc | tccctgtagt | ttccacagga | tttatctctc | tgtacccccg | 660 |
| tccctccaa  | ctactctgtc | agcctctcct | ccatccctta | cttcccttct | aaattccagg | 720 |
| agatgacctc | actttgcaaa | gcaaattgga | gccaccaa   | tgtagctctc | ctcgggtgga | 780 |
| actgcatctg | tgctcatccc | tgcaccttct | tgcagaaagc | cgccccctca | ggccaagatg | 840 |
| agtgcctggc | ccccatggga | gactcagaca | ctttgacccc | ttgtgacttc | agcatctccc | 900 |
| tctttaaaga | ttctctccca | acattcagtc | gtgctcga   |            |            | 938 |

&lt;210&gt; 212

&lt;211&gt; 1551

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (420)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1017)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1408)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1423)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 212

|            |             |            |            |             |             |      |
|------------|-------------|------------|------------|-------------|-------------|------|
| aggctggact | aagcatagag  | aaccaggaga | gaaagaaaga | tttaagagac  | tgagtaatat  | 60   |
| tttttgacag | atcatttaag  | aaactgagta | attttttttt | totccaaaag  | ggcatggggt  | 120  |
| ttttttttgt | tttggttttt  | ctctatttgg | cactttctag | ggattgggtct | ataaattttt  | 180  |
| tgaaagatca | taggataaat  | ttctttgtag | caacttccta | ttttagtgtt  | tatgttaggg  | 240  |
| garccccarg | tgtccctgct  | gatacgccat | tagggccact | tctcagcctc  | tggctacatc  | 300  |
| ataatgcttt | tttttctatc  | ttgccaaaag | ttccmgaaaa | ttkakgtttt  | ctaattttta  | 360  |
| aaaaattggt | tgtggagatg  | ggatgggacc | tctttataag | ccctgaaaat  | aagtgatttn  | 420  |
| ttttaagtgc | tattctgcta  | taaacctgat | tctcactttt | ttctgtagac  | aacagttttt  | 480  |
| tataatatat | ctatttttgt  | tggacattat | ttccttttaa | ccaatactga  | aattccatag  | 540  |
| tgtawacttt | ctccacattt  | tctttgatta | atacttyctt | aaaatagaca  | cttggattgg  | 600  |
| caccagctgt | caccaataaa  | gctgccctga | acattgtcaa | tcaatcctgt  | taaccaattt  | 660  |
| gagaattttt | ctggaatgct  | tagttaggga | tgaaattgct | gggttatagg  | tatgagtatg  | 720  |
| cttgatatac | ttttctccag  | aatgtctaca | cctgtgtgta | caccacatct  | ccagagatag  | 780  |
| gggaatctta | tgtccctgct  | aactgctctc | gttatttaat | tttctgacat  | ttgccgccgc  | 840  |
| cgccgcccc  | tgcccccaac  | acacacatgg | tataaagtgg | tagtttcttg  | ttttaaattg  | 900  |
| aacttttgaa | tgattttgaat | ttgggcattt | ctttgtatcc | tgagttattt  | tgggtttcccg | 960  |
| ttatgtgaat | atccttttcc  | tatgctttta | ctacttttct | aattttgtcc  | ttttttnngt  | 1020 |
| tatcaaattc | caggccattg  | tctattccat | cgtcactttt | gggtattgga  | aacatctttc  | 1080 |



|             |            |            |             |             |            |      |
|-------------|------------|------------|-------------|-------------|------------|------|
| cattctgtag  | cctgtctgtt | gaacataaat | ctcgattttt  | atgtaatcag  | atTTTTctcc | 1140 |
| ttacgggttat | gttcttggaa | ttttatttaa | gaaatctttt  | tctatcctga  | gaccacaaaa | 1200 |
| atgtcccccac | cattttcttc | tgtttcatag | ttttgccttg  | tatgtttaat  | cctttaaggc | 1260 |
| atgtgtagtt  | cattttatat | ggtgtgaaat | agttcttatt  | cattttattca | acacaratgg | 1320 |
| gtggagtgcc  | tgctgatggg | agtactcttc | agagtacttt  | gtatatattt  | gtgaacacat | 1380 |
| attcttgccc  | tggaagctta | tggtgtcntt | caaggtagat  | ccntactcgg  | tttccacctg | 1440 |
| ttttcttcag  | ccctcaggat | gaattccaca | atTTTtacaca | tagcaccagt  | taaggaatag | 1500 |
| gctttattgg  | agaaaaggaa | ggcttattag | accagcatca  | gcaaaaaaaaa | a          | 1551 |

&lt;210&gt; 213

&lt;211&gt; 997

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 213

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| agagagtcct  | caacagaacc  | taatcatgct  | ggcaccctaa | tctcatactt  | ctagcctcca  | 60  |
| gaactgagag  | aacataaact  | ccagttgttt  | aagctaccca | gtctatggta  | tttgttatta  | 120 |
| tagcccaagc  | taagtcagggt | ggaaaggcag  | aaatatTTTg | agaagartca  | tttctacaaa  | 180 |
| aacagagtgg  | ttctaaatga  | aatggccaga  | tatttcatct | tcttcatact  | agtattttatg | 240 |
| aaagtttcat  | taaacaccac  | ttggccagca  | cccaggcctg | ccaccctcag  | aacggcaaac  | 300 |
| aaaagcaaat  | gatttgagga  | acaaaagagt  | ggacacagag | cctctcagaa  | gatggctcca  | 360 |
| tcttctgaga  | tgatcttctg  | agatcatcaa  | ttttctgcac | ctgatgtcct  | actccaattg  | 420 |
| tagtagataa  | gagcaaagac  | acttctctgat | cctgtggaaa | atgctggagc  | cctgctgatg  | 480 |
| gagaggctga  | cactgggacc  | aacagaaggc  | cggacattta | tttgctgcag  | cccttctgca  | 540 |
| cctgggccct  | cttcaggcct  | tgtaccttgc  | actccocatg | ccactgtagc  | acctggtaag  | 600 |
| ctgaagttag  | gtatttgaag  | agataatttg  | cccccaacaa | agaattactt  | aaaagaaaaa  | 660 |
| ggaaaccact  | aaattccact  | tgacaaaacca | gtttgttcag | tttgaacttt  | tgcaaatctg  | 720 |
| aaactttctc  | tttggcacca  | tatgattctg  | ttacattagg | gtcctatcaat | gctaagatac  | 780 |
| acagctaggt  | ctaccagctg  | ccagtggtca  | agaatgaaag | aacctctcag  | agagagatca  | 840 |
| gttttctaata | acctaacagt  | tttccttggs  | tattacmaaa | aaaaaaaaaa  | ttagaataaa  | 900 |
| atgtcagtg   | catgcaggca  | agtacagata  | tggaaatgaa | agctctgtct  | acaactgcaa  | 960 |
| gatttgtttg  | ttaataaaaat | tgattgggat  | cactoga    |             |             | 997 |

&lt;210&gt; 214

&lt;211&gt; 1496

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (450)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (451)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (454)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1485)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1492)

<223> n equals a,t,g, or c

<400> 214

|             |            |            |             |             |            |      |
|-------------|------------|------------|-------------|-------------|------------|------|
| gaattcggca  | cgagtaccca | cagatatctt | tggctttcag  | cctcaccaca  | atgctgtcca | 60   |
| ctatgttttt  | tttaatcgat | tgacatctca | tgaatccaca  | aatttagccg  | cttttccatc | 120  |
| ttttccatct  | ttgtcatagc | ttcatcacgc | acgatggagg  | tcacttcagc  | actatccgga | 180  |
| gcggcctcac  | ggacagatcr | gtgaatttcc | ttttcctttt  | tcttgatgta  | ccggattgtc | 240  |
| gactcggttaa | cattgagctc | atggccaaca | gcactgtaac  | tcatgcctga  | ttggagctta | 300  |
| tccaacacgc  | ggamttttct | cgtaaggsam | atcamgggtc  | tctttcgctt  | aggaacactg | 360  |
| ggcararctt  | aarcactacg | cttggggggc | atttttagaaa | gcaaaaaccac | ccacaaaaag | 420  |
| cagaaaaaaa  | agtgtcagta | aacagactgn | nganaggact  | ctttgtttac  | agcacaggag | 480  |
| ctgcgactag  | aaggcgggcg | ttctccccag | ttcaaacttc  | agctgggaac  | cttacctccg | 540  |
| ccaactccaa  | attttccacc | tctgcgcgat | cccgggaaas  | aaacccccag  | aacagtaccg | 600  |
| tgatgattga  | tttttagggt | acaaatacat | tttagcaagt  | aagtgaattt  | ggcattacga | 660  |
| attaatgatt  | aatgaaggtc | acctgtattt | ccatagatat  | gtaattttat  | ttaagcaggt | 720  |
| ttattatatt  | aaggcggsga | ggcagcgccg | aagactacaa  | gttccagcat  | gcaccgcgtc | 780  |
| cgggcggtt   | cgggctccca | gcgaggggct | cagggacgcc  | agcccggagg  | catcggccgg | 840  |
| aagtgtcgta  | gggcaaccac | gtagtactct | ctgcgcgatg  | gcaaagcgct  | gtcggggggc | 900  |
| gccctagctg  | ccgtcgccgc | cgccggggct | ctatgggtct  | tccctagagc  | tttgccgttg | 960  |
| gaggcggtg   | ctgcgggtct | gtgagtttga | ccagcgtcga  | gcggcagcaa  | catggaggaa | 1020 |
| ttcgactccg  | aagacttctc | tacgtcggag | gaggacgagg  | actacgtgcc  | gtcgggtgag | 1080 |
| cgattccgcc  | tgaggcgaga | agogaattgc | cccgcgccac  | gcctcacgtg  | aggcgcgctc | 1140 |
| tgcccccgcg  | ggcgtctgcc | ctgtggccca | ggtgggtccag | gggggctcct  | gttctcgagc | 1200 |
| gtccgctccc  | tcaggccccc | catcctcggc | cgctccggcc  | cgaggcggtg  | gcgcgtggcg | 1260 |
| gttctgtgct  | cccctcccgt | tgggcagctc | cggccgcgcg  | cccctcttgc  | agcgcgggaa | 1320 |
| cggcacatgg  | acacggcccc | ttgtcgctag | ggacgctcgt  | cggtcagccc  | cgaacgacaa | 1380 |
| cgctgcttca  | gaagtcgggg | cggcagttcg | agccttggaa  | gtttttttca  | gccctggccc | 1440 |
| gagagagctg  | ctggccaaca | accgcgccaa | gatagagctg  | tccgntctcc  | gncctgg    | 1496 |

<210> 215

<211> 1308

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1241)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1247)

<223> n equals a,t,g, or c

<400> 215

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| ttggcancng | ggagagggaa  | agaggaggaa  | atgggggtttg | aggaccatgg  | cttacctttc  | 60   |
| ctgcctttga | cccatcacac  | cccatttcc   | cctctttccc  | tcctcccgct  | gccaaaaaaa  | 120  |
| aaaaaaaagg | aaacgtttat  | catgaatcaa  | cagggtttca  | gtccctatca  | aagagagatg  | 180  |
| tggaaagagc | taaagaaacc  | accctttgtt  | cccaactcca  | ctttacccat  | attttatgca  | 240  |
| acacaaacac | tgctcttttg  | ggctcccttc  | ttacagatgg  | acctcttgag  | aagaattatc  | 300  |
| gtattccacg | tttttagccc  | tcagggttacc | aagataaata  | tatgtatata  | taacctttat  | 360  |
| tattgctata | tctttgtgga  | taatacatte  | agggtgtgct  | gggtgattta  | ttataatctg  | 420  |
| aacctaggta | tatcctttgg  | tcttccacag  | tcagtgtgag  | gtgggtccc   | tggtatggta  | 480  |
| aaaagccagg | tataatgtaa  | cttcacccca  | gcctttgtac  | taagctcttg  | atagtggata  | 540  |
| tactctttta | agtttagccc  | caatataggg  | taatggaaat  | ttcctgccct  | ctgggttccc  | 600  |
| catttttact | attaagaaga  | ccagtataaa  | tttaataatg  | ccaccaactc  | tggttagtt   | 660  |
| aagtgagagt | gtgaactgtg  | tggcaagaga  | gcctcacacc  | tcactagggtg | cagagagccc  | 720  |
| aggccttatg | ttaaaatcat  | gcacttgaaa  | agcaaacctt  | aatctgcaaa  | gacagcagca  | 780  |
| agcattatac | ggtcattctg  | aatgatccct  | ttgaaatctt  | ttctctgttt  | gtttgtttaa  | 840  |
| atcaagcctg | aggctggtga  | acagtagcta  | cacaccata   | ttgtgtgttc  | tgtgaatgct  | 900  |
| agctctcttg | aatttgata   | ttggttattt  | tttatagagt  | gtaaaccaag  | ttttatattc  | 960  |
| tgcaatgcga | acagggtacct | atctgtttct  | aaataaaact  | gtttacattc  | attatggggg  | 1020 |
| atgtatgacc | ttcatcttcc  | aagaaataga  | actctagctt  | agaattatgg  | atgctctaaa  | 1080 |
| atgtcagaat | gggaactctc  | ctcgaagtcc  | tcccaaactc  | agagacagca  | ctgccttctc  | 1140 |
| ctaaatgatt | attcttttct  | ccctgttttc  | tggtattctc  | taggcctcct  | cttcaccaca  | 1200 |
| gccatacccc | ttttttactt  | ccattaggcc  | gtataactgg  | ngggacngct  | ggctcggtata | 1260 |
| taatactggt | wccaacamag  | gggttctgga  | tgtacacmag  | gttatctt    |             | 1308 |

<210> 216

<211> 1705

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1281)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1704)

<223> n equals a,t,g, or c

<400> 216

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| tggccatgga  | agcgctagaa | ggtttagatt | ttgaaacagc | aaagaaggat | ttccttggat | 60  |
| ctggagaccc  | caaagaaaca | aagatgctaa | tcaccaaaca | ggctgactgg | gccagaaata | 120 |
| tcaaggagcc  | caaagccgcc | gtggagatgt | acatctcagc | aggagagcac | gtcaaggcca | 180 |
| tcgagatctg  | tggtgacctg | ggctgggttg | acatgttgat | cgacatcgcc | cgcaaactgg | 240 |
| acaaggctga  | gcgcgagccc | ctgctgctgt | gcgctacctt | cctcaagaag | ctggacagcc | 300 |
| ctggctatgc  | tgctgagacc | tacctgaaga | tgggtgacct | caagtccttg | gtgcagctgc | 360 |
| agtggagacc  | cagcgctggg | atgaggcctt | tgctctgggt | gagaagcatc | ctgagtttaa | 420 |
| ggatgacatc  | tacatgccgt | atgctcagtg | gctagcagag | aacgatcgct | ttgaggaagc | 480 |
| ccagaaagcg  | ttccacaagg | ctgggcgaca | gagagaagcg | gtccaggtgc | tggagcagct | 540 |
| cacaaacaat  | gccgtggcgg | agagcaggtt | taatgatgct | gcctattatt | actggatgct | 600 |
| gtccatgcag  | tgctctgata | tagctcaaga | tcctgcccag | aaggacacaa | tgcttggcaa | 660 |
| gtttctaccac | ttccagcggt | tggcagagct | gtaccatggt | taccatgcc  | tccatgccca | 720 |
| cacggaagat  | ccgttcagtg | tccatcgctc | tgaaactctt | ttcaacatct | ccaggttctt | 780 |
| gctgcacagc  | ctgcccgaag | acaccccttc | gggcatctct | aaagtgaata | tactcttcac | 840 |
| cttggccaag  | cagagcaagg | ccctcggtgc | ctacaggctg | gcccggcaag | cctatgacaa | 900 |

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| gctgctgggc  | ctgtacatcc | ctgccagatt | ccaaaagtc   | attgagctgg  | gtaccctgac  | 960  |
| catccgcgcc  | aagcccttcc | acgacagtga | ggagttgggtg | cccttggtgt  | accgctgctc  | 1020 |
| caccaacaac  | ccgctgctca | acaacctggg | caacgtctgc  | atcaactgcc  | gccagccctc  | 1080 |
| catcttctcc  | gcctcttctc | acgacgtgct | acacctgggt  | gagttctacc  | tggagggaagg | 1140 |
| gatcactgat  | gaagaagcca | tctccctcat | cgacctggag  | gtgctgagac  | ccaagcggga  | 1200 |
| tgacagacag  | ctagagattt | gcaaacaaca | gtcccagat   | tcttgccggt  | agtgggagac  | 1260 |
| caagggaactc | catcgagat  | naggaccctg | tcacagctaa  | gctragcttt  | gagcaagggtg | 1320 |
| gctcaragtt  | cgtgccagt  | gtgggtgagc | ggctgggtgt  | gcgctccatg  | agccgcgggg  | 1380 |
| atgtcctcat  | caagcgatgg | ccccaccctc | tgagggtggca | atacttccgc  | tactgctgc   | 1440 |
| ctgacgcctc  | cattaccatg | tgccctctct | gcttccagat  | gttccattct  | gaggactatg  | 1500 |
| agttgctggt  | gcttcagcat | ggctgctgcc | cctactgccc  | cagggtgcaag | gatgacctgt  | 1560 |
| gcccattgacc | agcatcctgg | ggacggcctg | cacctctctg  | ccgccttggg  | gtctgctggg  | 1620 |
| ctgtgaagga  | gaataaagag | ttaactgtc  | aaaaaaaaa   | aaaaaaaaa   | aaaaaaaaa   | 1680 |
| aaaaaaaaa   | aaaaaaaaa  | aaana      |             |             |             | 1705 |

&lt;210&gt; 217

&lt;211&gt; 999

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| agcaaatac   | cttaacgac   | tggaaatgaa | ctgtgaccag  | tgccgccttg | ggtgggttctg | 60  |
| gagagactgc  | cgtcttcttg  | tttggccata | ggtgctgggg  | ccccggcttc | agtcactgtc  | 120 |
| tcagacagka  | gtcccgataa  | gcagatcacc | agtcctccac  | tgctcttctc | gtcggccttg  | 180 |
| ctgcatgaga  | agatagctgc  | tccctccctc | ttttcttaca  | ctgtaaatta | ttgtttttaca | 240 |
| attgagtgyc  | ttaataatag  | tytacaaata | ctatgtattt  | atgcaaaact | gttaaagtctc | 300 |
| tcatotgtta  | tgattggata  | cttgggtctg | tcagtagtgg  | tcagcattgg | gttgtgagct  | 360 |
| tgctctactc  | catacgtgtt  | tatcctgcta | tgcatctttac | attgtgtgtt | cacatctatt  | 420 |
| ccaaggagcc  | ttgctagaaa  | caacactggc | ggttccctgca | ggccaggcag | gcattggccc  | 480 |
| atgctgtgtc  | ccataggagc  | caatggaaag | aacgtagctt  | ggtctgctag | ccagccgtgg  | 540 |
| ggtggcgcag  | gccaggcagc  | ctctgcacca | gagtcacagca | cctgcccatt | ccccagtcac  | 600 |
| acaatcatat  | tcttctttca  | tagagatttt | attaccacct  | agaccacctc | agttttcctc  | 660 |
| tctgttagtg  | tcctgagctc  | ttttgcaaca | aatgttaggt  | acagaccaat | ccctgtccct  | 720 |
| ttcccaatca  | ggagctccac  | accatgagtt | gtttgggttt  | ccagaagctg | ccagtgggtt  | 780 |
| cccgtaatt   | gcgttaagat  | atcgatgat  | ttttttattg  | ttttcttctc | tgttttttta  | 840 |
| aataatatat  | ttaaaaggcag | tatcttttgt | actgtgaatt  | tgagtagaaa | gatgcagaat  | 900 |
| gcactttttt  | tttactctg   | ttgggtgtga | ttgtatatag  | tgtgtgtgtc | tctgtgtgatg | 960 |
| aaaataaaact | ttttctttat  | aaaaaaaaa  | aaaaaaaaa   |            |             | 999 |

&lt;210&gt; 218

&lt;211&gt; 941

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

|             |             |             |            |            |             |     |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| ggcagcagta  | gcatttcatt  | taatctgcag  | gtatatcttc | ccaacagttt | attgtcatgt  | 60  |
| gatgtcctca  | gccaaagattg | traggcagag  | aggagctgtc | ccaacctact | ataccaccga  | 120 |
| ggctggagag  | atcatatttt  | tgggtattaaa | ctggagtctc | tccatccttc | acattgttga  | 180 |
| tgtcctctgt  | agcaaaccgg  | aaaagtcagt  | gacagaagat | gccgctagcg | gtttgagcca  | 240 |
| gagaatgaca  | gctctgggtt  | ggagaaaagg  | gccggatggt | ggctctagaa | agcccatcct  | 300 |
| tctgctcttc  | ttttttctoc  | cccttatatt  | gtgctttcat | tcattcattc | attcatcaaa  | 360 |
| caattgttga  | gcacctatta  | tgtgtcagag  | tctgtgctag | cctctggaaa | acctgccctc  | 420 |
| atgtagctca  | ctgtggagta  | ggagaaaaca  | tgactacact | atgataagca | cgggttgtca  | 480 |
| gggtctcaca  | gagcagtggc  | ccctcatcca  | gaccgatgag | gtcaaagaag | gcattccaggc | 540 |
| gaggatgggtg | tcagagctaa  | ctgaagaatg  | agagggagct | gcaccascag | gggttggaac  | 600 |
| tgaagggtggc | agtgcctgga  | gtcttgatct  | cagcagaggg | agagcagctc | gtgaaaaggc  | 660 |

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| accaaggggtg | ggagagggca  | gagcacatgg | aggaacttca  | ggtagtcttg | gatggcsctg  | 720 |
| gggcaaagct  | agagaggtaa  | gaagaatcta | caaagtgtcc  | tcgagttaca | tgaacttcca  | 780 |
| tcccaataaa  | cccattggaa  | acgaaaaatt | taagtcagaa  | gtgcatttaa | ggctgggtccg | 840 |
| agtagaatga  | ttttttacaac | gaattgatca | caaccagtta  | cagatgtctt | tgttccttct  | 900 |
| ccactccccac | tgcttcacct  | gactagcctt | taaaaaaaaaa | a          |             | 941 |

<210> 219  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |             |            |     |
|-------------|-------------|-------------|------------|-------------|------------|-----|
| <400> 219   |             |             |            |             |            |     |
| taagtggaaat | cccccggggt  | tgcaggggaat | tcggcacgag | gcattcttgag | aagcttaaga | 60  |
| catactttga  | agacaacct   | agggacctcc  | agctgctgcg | gcattgacct  | cctttgcacc | 120 |
| ccgcagtggg  | gaagccccac  | ctggggccatg | ttcctgacta | cctgggttct  | cctgctctcc | 180 |
| gtggcctggg  | rogccctcac  | aagaagcgga  | agaagctgtc | ttcctcttgc  | aggaaggcca | 240 |
| agagagcaaa  | gtcccagaac  | ccactgcgca  | gcttcaagca | caaaggaaaag | aaattcagac | 300 |
| ccacagccaa  | gcccctcctga | ggttgtttggg | cctctctgga | gctgagcaca  | ttgtggagca | 360 |
| caggcttaca  | cccttcgtgg  | acaggcgagg  | ctctgggtgt | tactgcacag  | cctgaacaga | 420 |
| cagttctggg  | gcccggcagt  | ctggggccctt | tagctccttg | gcacttccaa  | gctggcatct | 480 |
| tgcccttga   | caacagaata  | aaaatttttag | ctgccccaaa | aaaaaaaaaa  | aaaaaaaaaa | 540 |
| ctcgaggggg  | ggcccgtacc  | caattcgccc  | tataa      |             |            | 575 |

<210> 220  
 <211> 3018  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 220  |             |             |             |             |             |      |
| gccagcctta | cagggttttac | gtgaaatgaa  | agccattgga  | atagaaccct  | cgcttgcaac  | 60   |
| atatcaccat | attattcgcc  | tgtttgatca  | acctggagac  | cctttaaaga  | gatcatcctt  | 120  |
| catcatttat | gatataatga  | atgaattaat  | gggaaagaga  | ttttctccaa  | aggaccggga  | 180  |
| tgatgataag | ttttttcagt  | cagccatgag  | catatgctca  | tctctcagag  | atctagaact  | 240  |
| tgcctaccaa | gtacatggcc  | ttttaaaaac  | cggagacaac  | tggaaattca  | ttggacctga  | 300  |
| tcaacatcgt | aattttctatt | attccaagtt  | cttcgatttg  | atttgtctaa  | tggaaacaaat | 360  |
| tgatgttacc | ttgaagtggg  | atgaggacct  | gataccttca  | gcctactttc  | cccactccca  | 420  |
| aacaatgata | catcttctcc  | aagcatcgga  | tgtggccaat  | cggctagaag  | tgattcctaa  | 480  |
| aatttgggaa | agatgtataa  | gaatatgggc  | atactttccg  | cagtgcacct  | agagaagaga  | 540  |
| tcctgatgct | catggcaagg  | gacaagcacc  | caccagagct  | tcagggtggc  | tttgctgact  | 600  |
| gtgctgctga | tatcaaatct  | gcgatgaaa   | gccaaacctat | cagacagact  | gctcaggatt  | 660  |
| ggccagccac | ctctctcaac  | tgtatagcta  | tcctcttttt  | aagggtctggg | agaactcagg  | 720  |
| aagcctggaa | aatgttgggg  | cttttcagga  | agcataataa  | gattcctaga  | agtgaagtgc  | 780  |
| tgaatgagct | tatggacagt  | gcaaaagtgt  | ctaacagccc  | ttcccaggcc  | attgaagttag | 840  |
| tagagctggc | aagtgccttc  | agcttaccta  | tttgtgaggg  | cctcaccagg  | agagtaataa  | 900  |
| gtgattttgc | aatcaaccag  | gaacaaaagg  | aagccctaag  | taatctaact  | gcattgacca  | 960  |
| gtgacagtga | tactgacagc  | agcagtga    | gcgacagtga  | caccagtga   | ggcaaatgaa  | 1020 |
| agtggagatt | caggagcagc  | aatgggtctca | ccatagctgc  | tggaaatcaca | cctgagaact  | 1080 |
| gagatatacc | aatatttaac  | attgtttaca  | agaagaaaag  | atacagattt  | ggtgaatttg  | 1140 |
| ttactgtgag | gtacagtcag  | tacacagctg  | acttatgtag  | atttaagctg  | ctaatatgct  | 1200 |
| acttaaccat | ctattaatgc  | accattaaag  | gcttagcatt  | taagtagcaa  | cattgcgggt  | 1260 |
| ttcagacaca | tggtgaggtc  | catggctctt  | gtcatcagga  | taagcctgca  | cacctagagt  | 1320 |
| gtcggtgagc | tgacctcacc  | atgctgtcct  | cgtgcgattg  | ccctctcctg  | ctgctggact  | 1380 |
| tctgcctttg | ttggcctgat  | gtgctgctgt  | gatgctgggc  | cttcacttta  | ggtgttcatg  | 1440 |
| cagttctaac | acagttgggg  | ttgggtcaat  | agtttcccaa  | tttcaggata  | tttcgatgtc  | 1500 |
| agaaataacg | catcttagga  | atgactaaac  | aagataatgg  | cagtttaggc  | tgcaaacctg  | 1560 |
| gtaaaatgac | tgtagataaa  | tgttgtaatt  | agtgtacacg  | tttgtatttt  | tggttaataa  | 1620 |

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| gccgctgcca | tagtttttota | acctgaacag  | ccatgaatgt  | ttcatgtctc  | cctttttttt | 1680 |
| ttgtctatag | ctgttaccta  | tttttagtgg  | tgaaatgaga  | gctagtgatg  | acagaaggat | 1740 |
| gtggaatgtc | ttcttgacat  | catttgtgtat | tgctggtaat  | caagtgggta  | acgactactt | 1800 |
| ctagcagctc | ttaccactat  | gacttaagt   | gtcctgggaag | gcagtaagt   | gaggtttgca | 1860 |
| gcattcctgc | cttcatgagg  | gcttctacca  | ctgaccactt  | tgcacgtacc  | tggtctccag | 1920 |
| atttacttag | gtacccacag  | agtcgtccac  | ataagcagct  | tcattctttac | cttgccagag | 1980 |
| ttgacaatta | tgggatactc  | tagtctactt  | atacttgtgt  | tcccatctgt  | ctgccatcct | 2040 |
| ctgaaggcca | ggacccagtc  | atacatcctt  | agaaacaaaa  | gtatgggtttt | tggtttctct | 2100 |
| tggaatgtca | ggtcttaagg  | catttaattg  | agggacaaaa  | aaaaaaaaaa  | gccgatatag | 2160 |
| tagctagcta | cttaagcctc  | catgggtatt  | gctccatctc  | aaagcagatt  | tgcaggacag | 2220 |
| aaagagttaa | ttagccttca  | gtcttggttt  | acagcttcca  | aggagagcct  | tggsccacct | 2280 |
| aaatgttaac | tgggtccctt  | cctgtctcta  | gttcatcagc  | acctgcagat  | gcctgactct | 2340 |
| tgtagcctt  | actattcaat  | acagtcctta  | gattcacggg  | atgctctctc  | ctatccaggc | 2400 |
| acctattctg | aatcaccatg  | ttgtctctga  | gctagagttg  | ataggagaaa  | atccatttgg | 2460 |
| gtagatggcc | tatgaatttg  | tagtagactt  | tcaaaatgag  | tgatttggtta | gcttggtact | 2520 |
| tttaagtttg | tggtagacat  | cctccaaacc  | catactctga  | gcaattaact  | gccttgaaca | 2580 |
| tagagaaaaa | ttaaggcctc  | acaggatgag  | tctccattct  | ctgtaaatgc  | ttattttatc | 2640 |
| atagtcttta | gcctctaact  | atgagtaaaa  | tgttctcttc  | ggcggggtgt  | ggtgactcac | 2700 |
| acctgtaacc | tcagcacttt  | gggaggcaga  | ggtgggagga  | tcacttaggt  | ccaggagtct | 2760 |
| gagactagcc | tgggcaacat  | agttagacac  | cggatctaca  | aaaaataaaa  | aagccagact | 2820 |
| ggtggtatgt | atctgtgtcc  | cagctaattg  | ggagggtgag  | atgggaggat  | tgtttgagcc | 2880 |
| taggagagg  | aggttgagct  | gagccgtgat  | cgcaccactg  | cactccagcc  | tgggcaacag | 2940 |
| agcaagacc  | tgtcttgag   | aaaccagaat  | tttggaagag  | caaatggggc  | tgagtgcagt | 3000 |
| ggctcatgcc | tgtaatcc    |             |             |             |            | 3018 |

&lt;210&gt; 221

&lt;211&gt; 2031

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 221

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| aggatatgca  | tgattcttaa | ccaggctata | tgtaaaaaaa  | aaattggaaa | atgcaataca | 60   |
| ttttttatta  | tacaaactac | agaatgagta | tgcaagtttt  | atztatcaaa | atgtaatgga | 120  |
| tttttaaagg  | ctgagaaatt | ttccttatac | ctaccttttc  | agttatttta | attataccaa | 180  |
| attatcaact  | agaatagctt | catccatag  | aaatataaaa  | tgaagagaca | cctaggctct | 240  |
| atcaggctta  | ggattctttg | aacttatttc | cactttaatt  | tctcagtggg | agttaagagg | 300  |
| ggtgagaaaa  | caaagaagg  | gaaaaactga | caactaacia  | aaccagcacc | acatcgctag | 360  |
| gtggtgctta  | ctaattacct | tctcaggatt | ttcctcagat  | tgaaaagctt | atgaggattt | 420  |
| cttgggagtc  | ttaataacct | gcctgttagt | acagagcttt  | cctgatgata | tttactcttg | 480  |
| agcacatgtg  | gttgtaaaac | cttaactttc | tttctccagg  | aggggtggta | tagaaacaga | 540  |
| tggtagtatt  | tatgaactga | tgttctcgtg | aaatgttgag  | ggtggggaga | aaagacttta | 600  |
| agggaggaga  | gccatctatt | ttgttcctaa | agccacctct  | cagcagaatc | gtcatgtttt | 660  |
| tctgatgcac  | cgctctgctt | catgcccaag | atgacttgcg  | aggcaatctc | aggagctgtg | 720  |
| gacttaaccr  | ttgcaaagca | cactgtcttt | ctcagcgctc  | tctgcaagtc | agtaggtgtt | 780  |
| agtatggttg  | caaagttcac | tgtctcagca | aagttgaact  | gggctacctc | tctacagctg | 840  |
| tttcttcaga  | gggaaaaatc | ttgagaccag | atgggtggagc | tctggagtca | gaggaaatgg | 900  |
| gtgtcttcag  | cacaaagctg | ctgctttttc | ttcagccact  | tctgacattt | ttacataccg | 960  |
| agcctgagat  | trtgtgatta | tctcaaatca | aatcactctg  | atggagataa | ataatcaaaa | 1020 |
| ctgtttttata | gtcattgatt | tggtgagaac | agtaatggaa  | aatgggtgtg | aaggacttct | 1080 |
| cattttttgga | gctttccttc | cagagtcctg | gctgattggg  | gttcgctgtt | catctgagcc | 1140 |
| cccaaaagca  | ttattactga | tacttgacac | cagtcaaaag  | cgcagactgg | atggatggtc | 1200 |
| ttttataagg  | catttaagg  | tacactactg | tgtttccactg | accatacatt | tttcttagcc | 1260 |
| cctcaagtaa  | tatagcacag | agttatgaat | gacaattccc  | ctaaccattc | ctcttcatat | 1320 |
| ctgcctcttc  | cccttaccat | cgtaattctc | caaactgggc  | ataaaggcac | tctgtgaaga | 1380 |
| tattggggac  | tgacatctta | agctctcacc | tggctgcagt  | aggaaaggcc | aaactgacga | 1440 |
| caaaaaaaaa  | attctttata | aagatgatat | ggttaacatgt | atctttgccc | tgggtctggg | 1500 |
| tgggtccagt  | cagtctcaga | tttacaagca | tttaggagcc  | taggtaaaag | ctgctagtat | 1560 |

|             |            |            |             |            |             |      |
|-------------|------------|------------|-------------|------------|-------------|------|
| tcttttataaa | gttacattta | tgacttgcaa | tgatagaaaa  | ctccttccaa | ttaaattggca | 1620 |
| ttttataata  | ttatgtgtgt | acttcacagt | gttaaaaaata | ccctcatagc | ttattgcatt  | 1680 |
| tgatcttcac  | agaaagtgca | ttttaaccag | tactctgggt  | gcaataaata | atatgtagaa  | 1740 |
| atttaagtcc  | tccaattcca | gcacatccag | tgagttttga  | cagtgtgttt | atgtggaatg  | 1800 |
| tttaaggata  | tacaattgta | ctttatataa | attggctctt  | gttcttctta | aatgtgacac  | 1860 |
| gaaacaattg  | tgctgctaca | ttatactgga | aattaacagg  | ggaaaaggga | agagctcttg  | 1920 |
| gctcccttga  | ggttctgcta | gtggtgttag | gagtggttac  | aactgagctt | ttagtaacca  | 1980 |
| tttaaccgta  | tgtaaacttg | gtttctaatt | aaaaaaaaat  | ttctttttcc | a           | 2031 |

<210> 222  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (241)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (954)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (961)  
 <223> n equals a,t,g, or c

|            |            |
|------------|------------|
| <400> 222  |            |
| ggcacgaggg | ccgcgggaca |
| tctgctggag | ccgatgccaa |
| tctgtggggc | ctttttactg |
| aatagaagtt | ttgcatcgtc |
| naaatgccca | ttatgacggc |
| cacaaaatga | aggccacccc |
| tagacattgc | tatgacagat |
| catttgcata | cggaaaggaa |
| tttttgagat | tgaactttat |
| aaatagacat | ggacaatgac |
| gggaatttga | aaaagatgag |
| atatttttaa | gaagaatgac |
| tataccaaca | cgatgaacta |
| ctgtacttta | tgtatwaaac |
| tatgagaaga | tattttgatc |
| ttttgcaaac | ttaaaaaaa  |
| natatgat   |            |
| ggcagcaggg | ccgcggggca |
| tctgctggag | ccgatgccaa |
| tctgtggggc | ctttttactg |
| aatagaagtt | ttgcatcgtc |
| naaatgccca | ttatgacggc |
| cacaaaatga | aggccacccc |
| tagacattgc | tatgacagat |
| catttgcata | cggaaaggaa |
| tttttgagat | tgaactttat |
| aaatagacat | ggacaatgac |
| gggaatttga | aaaagatgag |
| atatttttaa | gaagaatgac |
| tataccaaca | cgatgaacta |
| ctgtacttta | tgtatwaaac |
| tatgagaaga | tattttgatc |
| ttttgcaaac | ttaaaaaaa  |
| natatgat   |            |
| ggcagcaggg | ccgcggggca |
| tctgctggag | ccgatgccaa |
| tctgtggggc | ctttttactg |
| aatagaagtt | ttgcatcgtc |
| naaatgccca | ttatgacggc |
| cacaaaatga | aggccacccc |
| tagacattgc | tatgacagat |
| catttgcata | cggaaaggaa |
| tttttgagat | tgaactttat |
| aaatagacat | ggacaatgac |
| gggaatttga | aaaagatgag |
| atatttttaa | gaagaatgac |
| tataccaaca | cgatgaacta |
| ctgtacttta | tgtatwaaac |
| tatgagaaga | tattttgatc |
| ttttgcaaac | ttaaaaaaa  |
| natatgat   |            |

<210> 223  
 <211> 1404  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1351)

<223> n equals a,t,g, or c

<400> 223

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| cgttttccgg | cogtgcgttt | gtggccgtcc | ggcctccctg | acatgcagcc | ctctggaccc | 60   |
| cgaggttga  | cctactgtg  | acacacctac | catgcggaca | ctcttcaacc | tcctctggct | 120  |
| tgcctggcc  | tgcagccctg | ttcacactac | cctgtcaaag | tcagatgcca | aaaaagccgc | 180  |
| ctcaaagacg | ctgctggaga | agagtcagtt | ttcagataag | ccggtgcaag | accggggttt | 240  |
| ggtggtgacg | gacctcaaag | ctgagagtgt | ggttcttgag | catcgcagct | actgctcggc | 300  |
| aaaggcccg  | gacagacact | ttgctgggga | tgtactgggc | tatgtcactc | catggaacag | 360  |
| ccatggctac | gatgtcacca | aggtcttttg | gagcaagttc | acacagatct | cacctgtctg | 420  |
| gctgcagctg | aagagacgtg | gccgtgagat | gtttgaggtc | acgggcctcc | acgacgtgga | 480  |
| ccaagggtgg | atgcgagctg | tcaggaagca | tgccaagggc | ctgcacatag | tgctcggct  | 540  |
| cctgtttgag | gactggactt | acgatgattt | ccggaacgtc | ttagacagtg | aggatgagat | 600  |
| agaggagctg | agcaagaccg | tggtccaggt | ggcaaagaac | cagcatttcg | atggcttcgt | 660  |
| ggtggaggtc | tggaaccagc | tgctaagcca | gaagcgcgtg | ggcctcatcc | acatgctcac | 720  |
| ccacttggcc | gaggctctgc | accaggcccg | gctgctggcc | ctcctggtca | tcctcgctgc | 780  |
| catcaccccc | gggaccgacc | agctgggcat | gttcaogcac | aaggagtttg | agcagctggc | 840  |
| ccccgtgctg | gatggtttca | gcctcatgac | ctacgactac | tctacagcgc | atcagcctgg | 900  |
| ccctaattga | cccctgtcct | gggttcgagc | ctgcgtccag | gtcctggacc | cgaagtccaa | 960  |
| gtggcgaagc | aaaatcctcc | tggggctcaa | ctcttatggt | atggactacg | cgacctccaa | 1020 |
| ggatgcccgt | gagcctgttg | tcggggccag | gtacatccag | acactgaagg | accacaggcc | 1080 |
| ccggatggtg | tgggacagcc | aggyctcaga | gcacttcttc | gagtacaaga | agagccgcag | 1140 |
| tgggaggcac | gtcgtcttct | acccaacctc | gaagtccctg | caggtgcggc | tggagctggc | 1200 |
| ccgggagctg | ggcgttgggg | tctctatctg | ggagotggcc | agggcctgga | ctacttctac | 1260 |
| gacctgctct | aggtgggcat | tgcgccctcc | gcggtggacg | tgttcttttc | taagccatgg | 1320 |
| agtgagttag | caggtgtgaa | atacaggcct | ncactccgtt | tgctgtgaaa | aaaaaaaaaa | 1380 |
| aaaaaaaaaa | aaaaaaaaaa | aaaa       |            |            |            | 1404 |

<210> 224

<211> 707

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (705)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (706)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (707)

<223> n equals a,t,g, or c

<400> 224

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ngcgcgcctg | cagtcgacac | tagtggatcc | aaagaattcg | gcacgagggc | aggtccaggg | 60  |
| ctcagaaaac | agctctattg | acgaattctg | ccgcaagttc | cgcttgact  | gcccgtcggc | 120 |
| catggagcgg | atcaaggagg | accggcccat | caccatcaag | gacgacaagg | gcaacctcaa | 180 |



|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| ccgctgcac  | gcagacgtgg | tctcgctctt | catcacggtc | atggacaagc  | tgcgccctgga | 240 |
| gatccgcgcc | atggatgaga | tccagcccca | cctgcgagag | ctgatggaga  | ccatgcaccg  | 300 |
| catgagccac | ctcccacccg | actttgaggg | cgcgcagacg | gtcagccagt  | ggctgcagac  | 360 |
| cctgagcggc | atgtcggcgt | cagatgagct | ggacgactca | caggtgcgtc  | agatgctgtt  | 420 |
| cgacctggag | tcagcctaca | acgccttcaa | cgccttcctg | catgcctgag  | cccggggcac  | 480 |
| tagcccttgc | acagaagggc | agagtctgag | gcgatggctc | ctgggtccct  | gtccgccaca  | 540 |
| caggccgtgg | tcatccacac | aactcactgt | ctgcagctgc | ctgtctgggtg | tctgtctttg  | 600 |
| gtgtcagaac | ttttgggccc | ggccccctcc | cacaataaag | atgctctccg  | accttcaaaa  | 660 |
| aaaaaaaaaa | aaaaactcrg | ggggggcccc | gtcccaatcc | ccccnnn     |             | 707 |

<210> 225  
 <211> 1384  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| <400> 225   |            |            |             |             |             |      |
| ggggaactgc  | agtgacagca | ggagtaagag | tgggaggcag  | gacagagctg  | ggacacaggt  | 60   |
| atggagaggg  | ggttcagoga | gcctagagag | ggcagactat  | caggggtgccg | gcggtgagaa  | 120  |
| tccagggaga  | ggagcggaaa | cagaagaggg | gcagaagacc  | ggggcacttg  | tgggttgag   | 180  |
| agccccctag  | ccatgtttgg | agccaagcca | cactggctac  | caggtccct   | acacagtcct  | 240  |
| gggctgccct  | tggttcttgt | gcttctggcc | ctggggggccg | gggtgggcca  | ggaggggtca  | 300  |
| gagcccgctc  | tgctggaggg | ggagtgcctg | gtggtctgtg  | agcctggccg  | agctgctgca  | 360  |
| ggggggcccg  | ggggagcagc | cctgggagag | gcacccccctg | ggcgagtggc  | atttgctgcy  | 420  |
| gtccgaagcc  | amcaccatga | gccagcaggg | gaaaccggca  | atggcaccak  | tggggccatc  | 480  |
| tacttcgacc  | aggctcctgg | gaacgagggc | ggtggctttg  | accgggcctc  | tggctccttc  | 540  |
| gtagcccttg  | tccgggggtg | ctacagcttc | cggttccatg  | tgggtgaagg  | gtacaaccgc  | 600  |
| caaactgtcc  | agggtgagct | gatgctgaac | acgtggcctg  | tcactctcag  | ctttgccaat  | 660  |
| gatcctgacg  | tgacccggga | ggcagccacc | agctctgtgc  | tactgccctt  | ggaccctggg  | 720  |
| gaccgagtgt  | ctctgcgctc | gcgtcggggg | aactctactg  | gtgggttgga  | atactcaagt  | 780  |
| ttctctggct  | tcctcatctt | ccctctctga | ggacccaagt  | ytttcaagca  | caagaatcca  | 840  |
| gccccctgaca | actttcttct | gcctctctct | gccccagaaa  | cagcagaggg  | aggagagaga  | 900  |
| ctccctctgg  | ytccatatcc | acytctttgc | atgggamoct  | gtgccaaaca  | cccaagttta  | 960  |
| agaraary    | ararctgwgg | caggtatata | gagctggaag  | tggaccatgg  | aaaacatsga  | 1020 |
| taaccatgca  | tcytcttctg | tggccacctc | ctgaaactgt  | ccaccttga   | agtttgaaact | 1080 |
| ttagtccctc  | camactctga | ctgctgcctc | cttctctcca  | gctctctcac  | tgagttatyt  | 1140 |
| tcactgtaac  | tgttcagca  | tatccccact | atctctctct  | ctcctgatct  | gtgctgtctt  | 1200 |
| attctctctc  | ttaggcttcc | tattacctgg | gattccatga  | ttcattcctt  | cagaccctct  | 1260 |
| cctgccagta  | tgtataaacc | tccctctctc | ttctcttatcc | cgctgtccca  | ttggcccgagc | 1320 |
| ctggatgaat  | ctatcaataa | aacaactaga | gaatggtggt  | caaaaaaaaa  | aaaaaaaaaac | 1380 |
| tcga        |            |            |             |             |             | 1384 |

<210> 226  
 <211> 774  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (773)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 226  |            |            |            |            |             |     |
| tttaaagatg | aagaaatgac | aagggaggga | gatgagatgg | aaagggtgtt | ggaagagata  | 60  |
| aggggtctra | gaaagaaatc | tagggctctg | cattctaaac | ataggcattc | tccgggaccgt | 120 |
| ccttatccca | tttaattaat | ttctctgaca | attcaattat | tttctgttat | taatgttgcc  | 180 |
| actgctttct | gtttgtctgc | acttctctga | taaataattg | ctatcgtttt | actccagtca  | 240 |

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| ttcgatgttg  | ctgagattta | catatgactc  | ttgtcaacat  | ctcaactttt | gacccaatct | 300 |
| tattcattta  | ataagaggtc | tcatttcattt | gcattggaaa  | atgctcattg | tatattgcaa | 360 |
| agtgaaaata  | acgagttgca | aaacagtgta  | tacatatatg  | tgtgtatata | tgtacacttt | 420 |
| atgtgtacac  | ttctatgtga | cataatgcaa  | aggaaagtgt  | ctgattttat | tatacaccaa | 480 |
| agggttaacag | tgaatctctg | tgtgatctct  | ttttttttct  | ttttgcctat | ctgcatcttc | 540 |
| tcacttgcca  | aaaaatgaat | atatgtttat  | gtgtgtatat  | tacttgtgtc | acaaaaaacc | 600 |
| ctaaagtaga  | cagtaaaaga | acttgtcaat  | cgccctttgga | aggcaatgaa | acacttaata | 660 |
| aactctcaat  | aacagaagcg | taaaaatgaa  | atgtaaaacct | ccaattacct | ctggatctct | 720 |
| tagccagagt  | aataaactgg | taattattac  | agataaaaaa  | aaaaaaaaaa | aana       | 774 |

&lt;210&gt; 227

&lt;211&gt; 865

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (344)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 227

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ccacgcgtcc | ggcctttctt | ggccagaggg | gccggttgga | ctcacggggc | gggcatgatg | 60  |
| ggtaacagga | ccggtggggg | ccccaggaag | tcctagaggg | ggtcgggggt | tgggtggaca | 120 |
| agctttctct | gtctctctcc | gacagagctg | acgtgtcctg | ggttccaccg | ggagcgggca | 180 |
| tttccaccgg | acgggagggg | tcgggggtgt | cggggctggg | gaatacgtag | gggttgccgc | 240 |
| gcggtgtggg | gagttggggc | gtgtggctgc | agtcccggga | gttcttgagg | ggggtcggcc | 300 |
| caccgagctt | ccggaccggc | tgatctgccc | gtagcttgcc | gganggargg | cggagctgac | 360 |
| tctccgtccc | ttctcccatc | ccctccagtg | gtgggtacgg | gcacctcgct | ggcgctctcc | 420 |
| tccctcctgt | ccctgctgct | cttctgctgg | atgcagatgt | acagccgtca | gctggcctcc | 480 |
| accgagtggc | tcaccatcca | gggcggcctg | cttggttcgg | gtctcttctg | gttctcgctc | 540 |
| actgccttca | ataatctgga | gaatcttgct | tttggcaaa  | gattccaagc | aaagatcttc | 600 |
| cctgagattc | tcctgtgccc | cctggttggt | ctctttgcat | ctggcctcat | ccaccgagtc | 660 |
| tgtgtcacca | cctgcttcat | cttctccatg | gttggtctgt | actacatcaa | caagatctcc | 720 |
| tccaccctgt | accaggcagc | agctccagtc | ctcacaccag | ccaaggtcac | aggcaagagc | 780 |
| aagaagagaa | actgaccctg | aatgttcaat | aaagttgatt | ctttgtaaaa | aaaaaaaaaa | 840 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaa      |            |            |            | 865 |

&lt;210&gt; 228

&lt;211&gt; 1102

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (462)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (469)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 228

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tttttttttt | accattttaa | ataaaatgaa | agtgaccttc | tgtttataaa | aatctttgtc | 60  |
| tgcattctct | cttatttccc | tagaagagat | tccaagaagc | ggtgagtgat | ttcacggcag | 120 |
| cagaggggtt | ggacatatta | cgggcgcgga | tccctcttgg | agtgagatga | ctctccggag | 180 |

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| agatttagtc  | gtcaccctcg  | cgtgtgaggc  | tgcgtcacac  | cccagggatg | tgtctatcaa  | 240  |
| gatggaagat  | cttttacacg  | ctcttgattt  | tgtttgscty  | tttttctatc | actagtgaga  | 300  |
| akgaaacttt  | ttatatgatt  | attatccatc  | ataatccaac  | acaaattact | gcttcatggt  | 360  |
| cttttacttt  | cctgtgaagg  | tttttagtgc  | ttttaaaaaat | tgctatatat | taagcttggt  | 420  |
| aatacttoca  | tgtgtatatt  | gtggscatca  | rtttccccgg  | gnacaggcnt | gcacattttg  | 480  |
| ccttcacacg  | ctgggtgggt  | tttcattttc  | amttctattt  | ctcgttcttc | tatcgtttta  | 540  |
| tgttcagacg  | ggttttctccg | tgtagaaagc  | agtttatgaa  | gatttacttt | cgacagtctt  | 600  |
| ctctctactt  | tctacagtga  | attctctgat  | gtgtctggga  | gtttgggggt | ctgggtaaga  | 660  |
| rtctctctct  | cacctatttc  | tctattacga  | tccacagcct  | catgctttat | garattgggtg | 720  |
| gcccgggarcg | ggggagattt  | gcggtatccc  | caagccagac  | tttatcccc  | tatccctgcc  | 780  |
| tctggatccc  | acgtacaggc  | ctgggaactc  | cctgtgggta  | ggggccaatg | gtctcgcaact | 840  |
| ctcacctgta  | ccccagggct  | ggcacaggat  | ggtcaaggag  | agaggctgcc | caagcgcatc  | 900  |
| cytctggtgt  | ccccctgaca  | cgccctccaaa | gtgagcaggt  | aggtttcaac | agccccacgt  | 960  |
| tgcagtggtg  | agatgaagct  | caggggtggag | accagtatct  | cacagttctc | tttgcattggc | 1020 |
| cgggtacttg  | ttagtcaact  | gatcaagtga  | aaattctagc  | cccagaggca | ggagaatccg  | 1080 |
| gaacaaaatt  | aaaccagcca  | gg          |             |            |             | 1102 |

&lt;210&gt; 229

&lt;211&gt; 744

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (303)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (392)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 229

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| gaattcggca  | cgagagtggc | tggagtcttg | ctgcagaggg | aagacatcag  | cagggagggga | 60  |
| gccagggcct  | gtcacatctt | tctcttgccc | attgtcctgg | tctttgtaag  | cccagaatct  | 120 |
| ccccttccct  | gaagggaggg | cagcacccca | ggagggcagc | aggtgtgctg  | tgaggggttg  | 180 |
| agtagtgtga  | gaggtcaggg | tacactagaa | tggccatgga | caccatgtgg  | gggtgctctg  | 240 |
| ggctggggcca | cagaacagtg | tccttcctgc | tgtcctccc  | ctgcagcttc  | ccccgacctt  | 300 |
| gtngttttatt | tggtttgata | ccaatcagca | gacctgcaa  | ggtgggaagct | cccaggtctt  | 360 |
| cagtcccacs  | actctcatgt | gccagtcacc | cntactgtaa | ctgcccgaatg | agtacttctt  | 420 |
| gcccactgcc  | aagatagagc | cagtttacca | agacagggga | attgcagtag  | agaaagagtt  | 480 |
| gaatatacat  | agagccagct | aaatgggaga | gtggagtgtt | cttattactt  | aaatcagcct  | 540 |
| cccytaaaat  | tcagaggtga | gaatttttca | aggacagttt | ggtggscagg  | cctaggggaat | 600 |
| ggatgctgct  | gattggctag | ggatgcaatc | ataggggtgt | agaaaagtgc  | cttgtgcact  | 660 |
| gagtccactt  | ttggtgagag | ctaccaagga | gctgctggtc | tgctggtccc  | ggtagagcca  | 720 |
| tctggtgtca  | ggaatgcaaa | agtg       |            |             |             | 744 |

&lt;210&gt; 230

&lt;211&gt; 1935

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1921)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1927)  
 <223> n equals a,t,g, or c

<400> 230

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ntctacccta  | atcaagatgg  | ggacatactt  | cgcgaccagg  | ttcttcatga  | acatatccag  | 60   |
| agattgtcta  | aagtagtgac  | tgcaaatac   | agagctcttc  | agataccaga  | ggtttatctt  | 120  |
| cgagaagcac  | catggccatc  | tgcaaatca   | gaaatcagga  | caataagtgc  | ttataaaacc  | 180  |
| ccccgggaca  | aagtgcagtg  | catcctgaga  | atgtgctcta  | cgattatgaa  | cctcctgagc  | 240  |
| ctggccaatg  | aggactctgt  | ccctggagcg  | gatgactttg  | ttcctgtgtt  | gggtgttgtg  | 300  |
| ttgataaagg  | caaatccacc  | ctgtttgctg  | tctactgtgc  | agtatatcag  | tagcttttat  | 360  |
| gctagctgtc  | tgtctggaga  | ggagtcctat  | tggtggatgc  | agttcacagc  | agcagtagaa  | 420  |
| ttcattaaaa  | ccatcgatga  | ccgaaagtga  | ccaagaccaa  | ggcccaccaa  | ggcagcagac  | 480  |
| tggttaatcag | acaaacagat  | ctctgagaag  | gtgcatcagc  | tgctttgaag  | gctgaagatt  | 540  |
| gtttttgtatg | atactgcaca  | gcacaggga   | ttttaaagca  | gatctttact  | aaacagggtta | 600  |
| atgagctaac  | aagcagggtc  | tctcgtcttt  | gggctctttc  | ctttctgagt  | tgcatattct  | 660  |
| atcttcttgt  | cccccaagtag | agactagtac  | tacaaaaagg  | gaccacattt  | ttcaagtatt  | 720  |
| tctaagtata  | aaaaacaaaa  | caaaaatctc  | ttaggaaatg  | tctagacctc  | cattcttgga  | 780  |
| ttccctttct  | ttccttttat  | tttaaaaaag  | aacagtaccc  | ctcttttaag  | atgctgtctt  | 840  |
| acattaatga  | gcactaatg   | gaaagaagg   | atgagtgca   | ctgaggatta  | gaatagtggt  | 900  |
| gcgttagtg   | cattatctat  | aaatacactc  | acctaaattg  | aaagctaaga  | aggaaatgta  | 960  |
| aatataatat  | atacttatat  | ttgatgtaat  | atggacatct  | gcagattcta  | ataaacaagg  | 1020 |
| actattgctg  | atagtaggct  | gtgacatact  | gtcttgtgaa  | atgggtttcct | tgacaaaatt  | 1080 |
| taagctgagc  | ttaaaagcaa  | aaaaacaaaa  | agtacacaga  | aatatattatt | aaaatgtaat  | 1140 |
| acagtttatt  | gaactttcta  | ggtatggagt  | ttgatggaca  | gggctgccty  | taatgagtgt  | 1200 |
| gaaggtcact  | aagtcactta  | gacatctcac  | cgtggaagtt  | tgtgagcctg  | cattaggaga  | 1260 |
| tagactgatt  | accatacatg  | acataaaaag  | gaacagtgga  | tagctcatac  | tttatgggtg  | 1320 |
| ttcttctcct  | ccgaaataat  | atactgcaga  | aatcccagac  | agagctcctt  | acaaaccttt  | 1380 |
| aattgtaata  | tatttttgat  | gattattcac  | attgaatgca  | cagaccaaga  | attcagtgaa  | 1440 |
| tgtcattttt  | taaaaaacta  | atgtgtattg  | tctgctctag  | tgatacaagt  | tttactagt   | 1500 |
| ataaactatt  | ttaatcaacc  | atactattct  | tatggaaaaa  | aatatctatt  | ttggcaggtt  | 1560 |
| tctgtgcctt  | tatttccctc  | ttctgaaaaa  | aagtctgtgt  | ttccatagtt  | tgggttgcac  | 1620 |
| tgtatatcaa  | taattaatca  | ggaatgggtt  | ttgggtgcctg | aaaaattggc  | catggaggca  | 1680 |
| caccaaagct  | tcaagcacia  | gtcttgtaca  | tgggccaatca | ctgtctgggt  | tcacttcgtg  | 1740 |
| tgtttcctaa  | acacatttag  | ctgctttttt  | aacaaactca  | gccccatact  | tgagtcctct  | 1800 |
| gttggtggga  | gcattttocag | gcactctttta | agggaaactgt | gacaaacagc  | ctcgggcaga  | 1860 |
| tgaacacgga  | ggctctctgt  | tgctctgtctc | tgagatcttt  | gtgtctggga  | atgcctaaag  | 1920 |
| ntcttgnntt  | ttttt       |             |             |             |             | 1935 |

<210> 231  
 <211> 1035  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1032)  
 <223> n equals a,t,g, or c

<220>

<221> SITE  
 <222> (1034)  
 <223> n equals a,t,g, or c

<400> 231

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
| agaggcctgg  | ctgcgttgcc | ctatctccgt | ctccgccacc | cacttagcgt  | tttaggcac  | 60   |
| aattaccagc  | agtttctccg | ccactatctg | gaaaattacc | cgattgctcc  | cggcagaata | 120  |
| caagagcttg  | aagaacgccg | cagttgctg  | gaagcctgca | gagcaaggga  | agcagcgttt | 180  |
| gatgccgaat  | atcagcgaat | tcctcacagg | gtggacctcg | atattttaac  | ctttacgata | 240  |
| gctctgactg  | cctctgaagt | tatcaacct  | ctgatagaag | aacttggttg  | cgataagttt | 300  |
| atcaatagag  | aatagtttag | tggtgacact | acttcaagag | aacctctgca  | ttccagtcac | 360  |
| accaatcccg  | caacttgatt | ttcagaagtc | aagagtatat | cgcgataaga  | cagtgcacag | 420  |
| gtggaggggg  | aaaaaagggg | gagggggaag | cttatcttga | aaaagcatca  | cagaagtaga | 480  |
| aaaaaatgtc  | gaaagcatta | taactgtaac | gttctttgag | tttgtgattg  | atccacattt | 540  |
| ttccccctgc  | attatggaaa | atgtctctca | gcattgcttt | attacaaagt  | aaaggatggt | 600  |
| tttataaaaat | tgagactgat | gaaacatcaa | tactagagcc | catgaggatg  | aaagaaatta | 660  |
| tcaaatagtg  | ctgaacagaa | taagatgtta | acgctgagtt | attaggactg  | gaaggctatg | 720  |
| aaaagaactt  | gaaattgtcg | gaatatgtgc | tctcttcatg | tcataattcaa | tagaagtttc | 780  |
| tagtttaaga  | ttgattttgt | gttttcttag | gcatttcaag | tgacaagcaa  | agtaaatgta | 840  |
| tatatattgt  | gataaatcat | gttttcaaga | acgtcaaatt | tctggacttt  | tttctttcaa | 900  |
| tttttaattt  | ttaaagtttt | tttggattta | aaaaatcyat | tcacaagcca  | aaaaatwtwt | 960  |
| waaatwtwcm  | gcgaaaagcc | aaaaaaaaaa | aaammaggg  | ggggccgggg  | cccatcccc  | 1020 |
| caaggggggc  | cngnt      |            |            |             |            | 1035 |

<210> 232  
 <211> 760  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (438)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (741)  
 <223> n equals a,t,g, or c

<400> 232

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| gggtcgaccc  | acgcgtccgc | tgaccagtc  | gttaragata | cttcttctca  | tacccaaaact | 60  |
| gttttaaacag | gtgccaccac | aagggatgtc | gtccttactc | tctgcggggtc | ttcaagcatc  | 120 |
| cctttgtggg  | aaargtctct | gggcaagcac | gtggtatttg | gtctgctgct  | tgcttccctt  | 180 |
| tttccaccag  | ggatgttgtg | atcataagtc | aaaacaacag | tatatcccaa  | atctcaaaag  | 240 |
| ctattgtggc  | ctgagcacia | ttgaaatcta | gcagagtctt | tcctatgtag  | ctttagagta  | 300 |
| actcttctgc  | ttctctgtca | cttacaattc | aggttctgcc | tttgcttaag  | agcatgagca  | 360 |
| gaagagtcct  | catgtgacgc | ttagttctat | tgcagtcctg | ggtgaaacta  | tttaagcwat  | 420 |
| ggggctgctk  | ctcccccawt | cctccctaac | aattcgttgt | gtggacttct  | catctaaaag  | 480 |
| gttagtggct  | tttgcctggg | atcagtgtct | tctattgatg | ttcttgcctg  | tctccagaca  | 540 |
| cattcctgtt  | gcattaagac | ttgaaagact | tgtagatgtg | tgatgttcag  | gcacaggatg  | 600 |
| ctgaaagcta  | tgttactatt | cttagtttgt | aaattgtcct | tttgatacca  | tcattctgtt  | 660 |
| ttctttttgt  | aggtataaat | aaaaacactg | ttgacaataa | aaaaaaaaaa  | aaaaaaaaaa  | 720 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa |             |             | 760 |

<210> 233  
 <211> 2057

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 233

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ccgagccggc tgcgcggggg gaatccgtgc gggcgcccttc cgtcccrgtc ccatcctcgc      60
cgcgctccag cacctctgaa gttttgcagc gccagaaaag gaggcgagga aggagggagt      120
gtgtgagagg agggagcaaa aagctcacc ctaaacattt atttcaagga gaaaagaaaa      180
agggggggcg caaaaatggc tggggcaatt atagaaaaca tgagcaccaa gaagctgtgc      240
attgttgggt ggattctgct cgtgttccaa atcatcgctt ttctgggtggg aggccttgatt      300
gctccagggc ccacaacggc agtgtcctac atgtcgggtg aatgtgtgga tgcccgtaa      360
aaccatcaca agacaaaatg gttcgtgcct tggggaccca atcatgtgga caagatccga      420
gacattgaag aggcaattcc aagggaaatt gaagccaatg acatcgtgtt ttctgttcac      480
attccccctc cccacatgga gatgagtcct tggttccaat tcatgmtgtt tatcctgcag      540
ctggacattg cttcaagct aaacaaccaa atcagrgaaa atgcagaagt ctccatggac      600
gtttccctgg ctaccgtga tgacgcgttt gctgagtggg ctgaaatggc ccatgaaaga      660
gtaccacgga aactcaaatg caccctcaca tctcccaaga cccagagca tggagggccg      720
gttactatga atgtgatgtc ctctctttca tggaaattgg gtctgtggcc catgaagttt      780
taccttttaa acatccggct gcctgtgaat gagaagaaga aaatcaatgt gggaaattggg      840
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tttgccatga agaccttctc tacgcccagc atcttcatca ttatgggtgtg gtattggagg      960
aggatcacca tgatgtcccg acccccagtg cttctggaaa aagtcattct tgcccttggg      1020
atttccatga ctttcatcaa tatcccagtg gaatggtttt ccatcgggtt tgactggacc      1080
tggatgctgc tgtttggtga catccgacag gcattcttct tgcrtatgct ctkctcttct      1140
ggatcatctt ctgtggcgag cacatgatgg atcagcacga gcggaaccac atcgcagggt      1200
attggaagca agtcggacc attgcccgtt gtctctctgc ctcttcatat ttgacatgtg      1260
tgagagaggg gtacaactca cgaatccctt ctacagtatc tggactacag acattgggaa      1320
cagagctggc catggctttc atcatcgtgg ctggaatctg cctctgcctc taacttctctg      1380
tttctatgct tcatggtatt tcagggtgtt cggaacatca gtgggaagca gtccagcctg      1440
ccagctatga gcaaagtcog gcggctacac tatgaggggc taatttttag gttcaagttc      1500
ctcatgctta tcaccttggc ctgcgctgcc atgactgtca tcttcttcat cgttagtcag      1560
gtaacggaag gccattggga aatggggcgg cgtcacagtc ccaagtgaac agtgcctttt      1620
tcacaggcat ctatgggatg tggaatctgt atgtctttgc tctgatgttc ttgtatgcac      1680
catcccataa aaactatgga gaagaccagt ccaatggaat gcaactccca tgtaaatcga      1740
gggaagattg tgctttgttt gtttcggaac tttatcaaga attgttcagc gcttcgaaat      1800
attccttcat caatgacaac gcagcttctg gtatttgagt caacaaggca acacatgttt      1860
atcagctttg catttgcatg tgtcacagtc acattgattg tacttgrata cgcacacaaa      1920
tacactcatt tagcctttat ctcaaaatgt taaatataag gaaaaaagcg tcaacaataa      1980
atattctttg agtattgtct tacttctctt aaaaaaaaaa aaaaaaactc gtgccgaatt      2040
cggcacgagc ggcacga                                     2057

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&lt;210&gt; 234

&lt;211&gt; 2084

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (775)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2080)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2083)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 234

```

ggcagagggc catttcoctgc aaagagccaa acccccattc ctctgtgccc ctccctctccc      60
accaagtgc ttataaaaaat agctcttggt accggaaata actgttcatt ttctactcct      120
ccctccctagg tcacactttt cagaaaaaga atctgcatcc tggaaaccag aagaaaaata      180
tgagacgggg aatcatcgtg tgatgtgtgt setgccttg gctgagtgtg tggagtcctg      240
ctcaggtgtt aggtacagtg tgtttgatcg tgggtggctg aggggaaccg cttgttcaga      300
gctgtgactg cggctgcact gcagagaagc tgcccttggc tgctcgtagc gccgggcctt      360
ctctcctcgt catcatccag agcagccagt gtccgggagg cagaaggtag cggggcagct      420
actggaggac tgtgcggggc tgccctgggt gccccctcgc cgtgggggoc ctgttgctgc      480
tgtccatcta tttctactac tccctcccaa atgcggtcgc cccgcccttc acttgtagc      540
ttgccctcct gggccttctc gcaggcactg aacatcctcc tgggcctcaa gggcctggcc      600
ccagctgaga tctctgcagt gtgtgaaaaa gggaaattca acgtggccca tgggctggca      660
tggcatattt acatcggata tctgcccgtg atcctgccag agctccaggc ccgattcga      720
acttacaatc agcattacaa caacctgcta cggggtgcag tgagccagcg gtgtnatatt      780
ctcctcccat tggactgtgg ggtgcctgat aacctgagta tggctgacct caacattcgc      840
ttcctggata aactgcccc cagaccgggt gaccgtgctg gcataaagga tcgggtttac      900
agcaacagca tctatgagct tctggagaac gggcagcggg cgggcacctg tgtcctggag      960
tacgccaccc ccttgccagc tttgtttgcc atgtcacaat acagtcaagc tggcttttag      1020
ggggaggata ggcttgagca ggccaaactc tctgcgcgga cacttgagga catcctggca      1080
gatgcccctg agtctcagaa caactgccgc ctctattgct accaggaacc tgcagatgac      1140
agcagcttct cgtgttccca ggaggttctc cggcacctgc ggcaggagga aaaggaagag      1200
gttactgtgg gcagcttgaa gacctcagcg gtgcccagta cctccacgat gtccaagag      1260
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gaccagggt caccaggcca gagcctccag tggcttccaa gcctctggac tgggggctct      1380
cttcagtggc tgaatgtcca gcagagctat ttccctccac agggggcctt gcagggaagg      1440
gtccaggact tgacatctta agatgcgtct tgtcccttg ggcagtcct tccctctctc      1500
tgagcctcgg tgtcttcaac ctgtgaaatg ggatcataat cactgcctta cctccctcac      1560
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gtcctgtgtc atgttccatt attggggagc ccagcagaa gaatggagag gaggaggag      1800
ctgagtttgg ggtattgaat ccccggtc ccaccctgca gcataaggt tgctatggac      1860
tctcctgccg ggcaactctt gcgtaatcat gactatctct aggattcttg caccacttcc      1920
ttccctggcc ccttaagcct agctgtgrat cggcaccccc accccactag agtactccct      1980
ctcacttgcg gtttctttat actccacccc tttctcaacg gtctcttttt aaagcacatc      2040
tcagattaaa aaaaaaaaaa aaaaaaaaaa agggggggcn gcnt                        2084

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&lt;210&gt; 235

&lt;211&gt; 2143

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2058)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2080)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2115)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2132)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 235

|             |             |             |             |              |             |      |
|-------------|-------------|-------------|-------------|--------------|-------------|------|
| tcgacccacg  | cgtccgggttg | aatttccttga | cctgcaaaca  | catatatttatt | agcctgactc  | 60   |
| aaacaatgaa  | gctatttaaaa | cttcgggagga | acattgtataa | actctctttg   | tatcggcatt  | 120  |
| tcaccaaacac | gcttatctttg | gcagtggcag  | catccattgt  | gtttatcatc   | tggacaacca  | 180  |
| tgaagttcag  | aatagtgaca  | tgtcagtcgg  | actggcggga  | gctgtgggta   | gacgatgcca  | 240  |
| tctggcgctt  | gctgtttctcc | atgatcctct  | ttgtcatcat  | ggtctctctg   | cgaccatctg  | 300  |
| caaacaacca  | gaggttttgc  | ttttcaccat  | tgtctgagga  | agaggaggag   | gatgaacaaa  | 360  |
| aggagcctat  | gctgaaagaa  | agctttgaag  | gaatgaaaat  | gagaagtacc   | aaacaagaac  | 420  |
| ccaatggaaa  | tagtaaagtc  | aacaaagcac  | aggaagatga  | tttgaagtgg   | gtagaagaga  | 480  |
| atgttccttc  | ttctgtgaca  | gatgtagcac  | ttccagccct  | tctggattca   | gatgaggaac  | 540  |
| gaatgatcac  | acacttttga  | aggtccaaaa  | tggagtaagg  | aatgggaaga   | tttgagttta  | 600  |
| aagatggcta  | ccatcaggga  | agagatcagc  | atctgtgtca  | gtctctctgt   | cggctccatg  | 660  |
| ggattaaagg  | aagcaatgac  | atcctgatct  | gttccttgat  | ctttggggcat  | tggagttggc  | 720  |
| gagaggtgtc  | agaacaaaga  | gaacatctta  | ctgaaaacaa  | gttcataaga   | tgagaaaaat  | 780  |
| ctacgagctt  | cttattttaca | acactgctgc  | cccccttctc  | cccagactct   | gacatggatg  | 840  |
| ttcatgcaac  | ttaagtgtgt  | tgttcctgaa  | ctttctgtaa  | tgtttcattt   | tttaaatctg  | 900  |
| acaaactaaa  | aagtttaacg  | tcttctaaaa  | gattgtcatc  | aacaccataa   | tatgtaatct  | 960  |
| ccaggagcaa  | ctgcctgtaa  | tttttattta  | tttagggagt  | tacatagggtg  | atgggggaaa  | 1020 |
| ttgttaacta  | ccttttcatt  | tcctgggaag  | tcaaggttac  | atcttgcaga   | ggttgttttg  | 1080 |
| agaaaaaagg  | gcccttctga  | gttaaggagc  | catagtctta  | tcaatgatca   | aaagaaaaaa  | 1140 |
| aaaaaaaaga  | gaaactgtta  | cagtatgatt  | cagatcattt  | aaaaaagcaa   | aatcaagtgc  | 1200 |
| aattttgttt  | acaaatggtg  | tatattaaag  | atttttctat  | ttcagatgta   | ctttaaagag  | 1260 |
| aaatattagc  | ttaactcttt  | tgacatctgc  | tattgtgaca  | catcccatgt   | ctggcaatgt  | 1320 |
| ggtgcacact  | ccgaaacttt  | taactactgt  | tttgtaagcc  | tccaaggggtg  | gcattgcagg  | 1380 |
| gtccttaggc  | aatgttttgt  | ttgcctttat  | gcagagaggt  | gttccaagtg   | ctgtgattga  | 1440 |
| gcaccgtgct  | agaggaactg  | taatgcttca  | gaagttgtag  | cttatacaaa   | ggaaacaggt  | 1500 |
| cctgctggct  | taattttaaac | agttatcgca  | tgaagttagcg | tggaggccct   | ggactgctgc  | 1560 |
| tcgttcttta  | ggatggactg  | ttctggatc   | tggtattggg  | ttagagactg   | tttaataagg  | 1620 |
| acatcacaaag | gtgatgggat  | tcatttgaag  | cactctatct  | ctgttttaat   | ggttttatcc  | 1680 |
| aattttgcct  | tcccaagatt  | tttgttctac  | ataaaaagtt  | catgccactt   | tttaatatata | 1740 |
| aaaaatttaa  | caaaattaat  | gtatttttct  | catttttttc  | aaacttttct   | ttaagactct  | 1800 |
| ttctgtcaaa  | ctcatgaaaa  | atttctttct  | atggctttta  | ttctagattg   | tcttattttc  | 1860 |
| tgttaaaacc  | aatgaccaca  | tgaccacaat  | cttcactaac  | tcatactgca   | gtgaaagtgt  | 1920 |
| taacccttag  | gtagtctctc  | tacaactctt  | tgctatggcg  | attttttaaa   | aagtttccta  | 1980 |
| gggaagtatc  | tctgagggaa  | caggcaatct  | gaaggaactg  | actatatctt   | ccatggctaa  | 2040 |
| gtocattagg  | ccaaaagnct  | gggtgggtat  | tggttgctan  | gctgtctatt   | ggcatattaa  | 2100 |
| aaacgtaggc  | cgganggaat  | aattagggtg  | tnatgccggc  | ggg          |             | 2143 |

&lt;210&gt; 236

&lt;211&gt; 1133

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (528)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;



<221> SITE  
 <222> (552)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1133)  
 <223> n equals a,t,g, or c

<400> 236

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| ggcacagctt  | ggaatgaacc | cctgtggata  | aggggggacta | ttagatagaa  | taaacatcaa  | 60   |
| taaatgcttg  | atgaataaac | gctaataccta | ccttcccagc  | ctgacacctc  | ccagtggaca  | 120  |
| ccacacttca  | cttgaagcct | tagaaaacctt | tcccacccat  | gcttccagcc  | ctggcttcat  | 180  |
| gttgccatct  | ctcaccccca | gaacaggccg  | cccgcctgaa  | gaaactacaa  | gagcaagaga  | 240  |
| aacaacagaa  | agtggagttt | cgtaaaagga  | tggagaagga  | ggtgtcagat  | ttcattcaag  | 300  |
| acagtgggca  | gatcaagaaa | aagtttcagc  | caatgaacaa  | gatcgagagg  | agcatactac  | 360  |
| atgatgtggt  | ggaagtggct | ggcctgacat  | ccttctcctt  | tggggaagat  | gatgactgtc  | 420  |
| gctatgtcat  | gactttcaaa | aaggagtttg  | caccctcaga  | tgaagagcta  | gactcttacc  | 480  |
| gtcgtggaga  | ggaatgggac | ccccagaagg  | ctgaggagaa  | gcggaacntg  | aaggagctgg  | 540  |
| cccagaggca  | angaggagga | ggcagcccag  | caggggcctg  | tgggtggtgag | ccctgccagc  | 600  |
| gactacaagg  | acaagtacag | ccacctcatc  | ggcaaggag   | cagccaaaga  | cgcagcccac  | 660  |
| atgctacagg  | ccaataagac | ctacggctgt  | ktgcccgtgg  | ccaataagag  | ggacacacgc  | 720  |
| tccattgaag  | aggctatgaa | tgagatcaga  | gccaaagaagc | gtctgcggca  | gagtggggaa  | 780  |
| gagttgccgc  | caacctccta | ggcgccccgc  | ccagctccct  | ttgacccctg  | gggcagggca  | 840  |
| gggggcaggg  | agagacaagg | ctgctgctat  | tagagcccat  | cctggagccc  | cacctctgaa  | 900  |
| ccacctccta  | ccagctgtcc | ctcaggctgg  | gggaaaacag  | gtgtttgatt  | tgtcacctgt  | 960  |
| ggagcttgga  | tatgtgcgtg | gcattgtgtg  | gtgtgtgtga  | gagtggtgat  | gcacaggtgg  | 1020 |
| gtattttaatc | tgtattattc | cccgctcctg  | gaattttcct  | cccatggggc  | tgggggtactt | 1080 |
| tacattcaat  | aaatactgtt | taacccaaaa  | aaaaaaaaaa  | aaaagaaaga  | agn         | 1133 |

<210> 237  
 <211> 1025  
 <212> DNA  
 <213> Homo sapiens

<400> 237

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| cctggccccc | attgcttcat | tggcctggcc  | atgcgcctgt | actatggcag | ccgctagctc | 60   |
| ctgacaactt | ccacctgat  | tccggaccct  | gtagattggg | cgccaccacc | agatccccct | 120  |
| cccaggcctt | cctccctctc | ccatcagcag  | ccctgtaaca | agtgccttgt | gagaaaagct | 180  |
| ggagaagtga | gggcagccag | gttattctct  | ggaggttggt | ggatgaaggg | gtaccctagg | 240  |
| agatgtgaag | tgtgggtttg | gttaaggaaa  | tgcttaccat | ccccaccacc | caaccaagtt | 300  |
| cttccagact | aaagaattaa | ggtaacatca  | atacctaggc | ctgagaaata | accccatcct | 360  |
| tgttgggcag | ctccctgctt | tgtcctgcat  | gaacagagtt | gatgaaagtg | gggtgtgggc | 420  |
| aacaagtggc | tttccctggc | tacttttagtc | accagcaga  | gccactggag | ctggctagtc | 480  |
| cagcccagcc | atgggtgcag | actcttccat  | aagggtacct | caccttoca  | ctttcatgca | 540  |
| agaaggccca | gttgccacag | attatacaac  | cattacccaa | accactctga | cagtctcttc | 600  |
| cagttccagc | aatgcctaga | gacatgctcc  | ctgcccctct | cacagtgtgt | ctccccacac | 660  |
| ctagcctttg | ttctggaaac | cccagagagg  | gctgggcttg | actcatctca | gggaatgtag | 720  |
| cccctggggc | ctggcttaag | ccgacactcc  | tgacctctct | gttcacctgt | agggctgtct | 780  |
| tgaagcccgc | tacccactct | gaggctccta  | ggaggtacca | tgcttcccac | tctggggcct | 840  |
| gcccctgctt | agcagtctcc | cagctcccaa  | cagcctgggg | aagctctgca | cagagtgacc | 900  |
| tgagaccagg | tacaggaaac | ctgtagctca  | atcagtgtct | ctttaactgc | ataagcaata | 960  |
| agatcttaat | aaagctctct | aggctgtagg  | gtggttccca | caaccacagc | caaaaaaaaa | 1020 |
| aaaaa      |            |             |            |            |            | 1025 |

<210> 238

<211> 1400  
 <212> DNA  
 <213> Homo sapiens

<400> 238

|            |             |            |             |            |             |      |
|------------|-------------|------------|-------------|------------|-------------|------|
| ggcacagttt | attaatacct  | attatgggaa | agtcactttg  | gttggcattg | aaaattacat  | 60   |
| catcttttaa | gcagtatatt  | tcccagatg  | gactcatcac  | tagcaaagac | taggttcatt  | 120  |
| ggaaggcata | gggtgagaga  | atgggaagat | gragtggagg  | cgggttggtt | aagtgcctgc  | 180  |
| agtgaagtga | tttgtctact  | tgaataatgg | tccatgtttg  | ggggcatatt | gtgtttcata  | 240  |
| agaagtgaaa | ggtatattgca | aagtaagcta | caaatagacc  | ataaatctgt | taacaacagt  | 300  |
| ccttaatatg | caaagatgaa  | aaacaagcat | tactgtctacc | caaagggaa  | tggtgcttgg  | 360  |
| tgatgtgcag | atggggctgt  | tggttaagag | agctattaca  | ggttttctct | cttaggtttc  | 420  |
| ataggaggta | gttactgaga  | tgagattgtt | ttatcttttt  | gaatacagat | ctcttgctct  | 480  |
| gagttagttc | tgaggatggg  | agtaataaag | gagttttttg  | tttttttggt | tgtttgtttg  | 540  |
| ttttggctcc | ttagtaatac  | tcctctgaca | tttattttct  | ttattcttca | aagaaaggaa  | 600  |
| accaactgaa | atgtttgctt  | taacaaacat | tttaataagt  | tctctgggtt | tttttttccc  | 660  |
| cttttaaaaa | aattagcata  | taccatagca | ataaaaaga   | taatgttaac | tattgtatgc  | 720  |
| tacaacttaa | gtgatttttt  | taaagaagca | caatgtcatt  | graagtatta | ttgaaaagga  | 780  |
| tcatagtcac | attgaatttg  | tgaaggccaa | agaaattgaa  | gggagtgata | ttttcatttt  | 840  |
| atgatattca | catatttagt  | aaattttgtg | tacaagaata  | ccaggcagag | tgttttcccc  | 900  |
| atggaacacg | gtttcagatt  | actttgtttt | tactgttaga  | gtctcaagtt | tagaaatgct  | 960  |
| aacacttaaa | tcagtttttt  | tctcactata | cttgaagatt  | gttaatatat | tgatattctc  | 1020 |
| ctagcttgat | ggaattttaa  | catatcttca | gatctgtgac  | agtgcagacc | aataaggactg | 1080 |
| ataatattag | cttcaaacca  | ataatatcca | gggttaaaat  | aaaaatcata | gtgaaagtac  | 1140 |
| gattgtaaaa | ttatgctata  | ttaaacttta | agtctgtaat  | aacttgacat | caaaatgtta  | 1200 |
| tgtaattacc | ataaataatg  | gctagcgaga | acatcttttg  | aaattctcaa | attacctttc  | 1260 |
| ttactacact | gtttgcagaa  | tgaatgtaga | aatgatcctg  | ttagctttct | gaatgttctg  | 1320 |
| tggttgaatg | tgtttttgct  | taaataaagc | ttttgggtatt | tgtttaaatw | acaaaaaaaa  | 1380 |
| aaaaaaaaaa | aaaaactcga  |            |             |            |             | 1400 |

<210> 239  
 <211> 1250  
 <212> DNA  
 <213> Homo sapiens

<400> 239

|            |            |            |            |             |             |      |
|------------|------------|------------|------------|-------------|-------------|------|
| gcccacgcgt | ccgcccacgc | gtccggcggt | gaggagtatg | gggcgctgat  | ggccatggag  | 60   |
| ggctactggc | gcttcctggc | gcygctgggg | tgggcactgc | tcgtcgggct  | cctgtcgggtg | 120  |
| atsttcgccc | tcgtctgggt | cctccactac | cgagaggggc | ttggctggga  | tgggagcgca  | 180  |
| ctagagttta | actggcaccc | agtgtctsat | gtcaccggct | tcgtcttcat  | ccagggcatc  | 240  |
| gcatcatcgt | ctacagactg | ccgtggacct | ggaaatgcag | caagctcctg  | atgaaatcca  | 300  |
| tccatgcagg | gttaaatgca | gttgcctgca | ttcttgcaat | tatctctgtg  | gtggccgtgt  | 360  |
| ttgagaacca | caatgttaac | aatatagcca | atatgtacag | tctgcacagc  | tgggttgagc  | 420  |
| tgatagctgt | catatgctat | ttgttacagc | ttctttcagg | tttttcagtc  | ttctcgtctc  | 480  |
| catgggctcc | gctttctctc | cgagcatttc | tcatgcccac | acatgtttat  | tctggaattg  | 540  |
| tcacttttgg | aacagtgatt | gcaacagcac | ttatgggact | gacagagaaa  | ctgatttttc  | 600  |
| ccctgagaga | tcctgcatac | agtacattcc | cgccagaagg | tgttttcgta  | aatacgcttg  | 660  |
| gccttctgat | cctgggtgtc | ggggccctca | ttttttggat | agtcaccaga  | ccgcaatgga  | 720  |
| aacgtcctaa | ggagccaaat | tctaccattc | ttcatccaaa | tggaggcact  | gaacagggag  | 780  |
| caagagggtc | catgccagcc | tactctggca | acaacatgga | caaatacagat | tcagagttaa  | 840  |
| acartgaagt | agcagcaagg | aaaagaaact | tagctctgga | tgaggctggg  | cagagatcta  | 900  |
| ccatgtaaaa | tgttgtagag | atagagccac | ataacgtcac | gtttcaaaac  | tagctctaca  | 960  |
| gttttgcttc | tcctatttag | catatgataa | ttgggctatg | tagtatcaat  | atttacttta  | 1020 |
| atcacaaagg | atggtttctt | gaaataattt | gtattgattg | aggcctatga  | actgacctga  | 1080 |
| attggaaagg | atgtgattaa | tataaataat | agcagatata | aattgtgggt  | atgttacctt  | 1140 |
| tatcttcttg | aggaccacaa | cattagcacg | gtgcctctgt | cakaatagat  | actcaatatg  | 1200 |
| tgaatatgtg | tctactagta | gttaactgga | taaactggca | gcacccctga  |             | 1250 |

<210> 240  
 <211> 1307  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (651)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1064)  
 <223> n equals a,t,g, or c

<400> 240

|            |             |            |             |             |             |      |
|------------|-------------|------------|-------------|-------------|-------------|------|
| ggcacgagag | aaaagagggt  | gagaatgttt | tctagcaggc  | agaatgtgca  | tacatgtttt  | 60   |
| catgartgtc | ctttgggtgc  | tgtttctttt | aaatcctctg  | tgacacagggc | tctggccttt  | 120  |
| artaactgtt | ttttctgtct  | tacgtcatgc | tgactgggtg  | ctaggggctg  | attacaaagg  | 180  |
| ggaagagttg | aacagacatc  | aggggcccgt | gaaaccaaag  | gactaggagt  | caggagaaca  | 240  |
| agtcagggat | taggagacag  | cggtttggtt | tattgtttatc | cagctggagg  | actcctaggg  | 300  |
| gcagcagcag | gaggaatacc  | agggccacgg | aggggcagga  | gtctcacagt  | ggagggcaga  | 360  |
| ctctaacaga | tgccagctga  | acgctcgtct | gccctgggatg | tcatacagat  | tggggaccag  | 420  |
| aaatctgggc | tcagagaacc  | cgtccaggga | gatttgaagc  | catgggttat  | cttctagagt  | 480  |
| tgatactgat | aatatatttt  | aatttttatt | gatgtttaat  | accttctgaa  | acaggaggggt | 540  |
| aagatcagat | gggaagcccy  | tctgttgaag | gatcttggga  | accttgggtg  | tttttttttt  | 600  |
| ttggtttttt | tttttttgat  | cgagctgttg | acatccttct  | taattcgatt  | ntgaggattt  | 660  |
| gtttaactaa | aaagtcccca  | aacacagaaa | gggcctcccc  | acctgctttg  | gggagctgtc  | 720  |
| gtgctggtga | gtgccaggca  | tccsatggga | cccatcactg  | ccagtgtctg  | tgccctccag  | 780  |
| aggtcagccc | tgtgtctgcc  | ctggctctgt | ctcctctgtg  | acagggcaga  | gcatttcttg  | 840  |
| tcagtttctc | catgggtgct  | cccacccctt | tgtaaagtgg  | atggacatga  | tggaattcag  | 900  |
| ttgtctcacc | ctgatagcct  | gggtgttgat | attcacttta  | cccgcaactca | gacacaggcg  | 960  |
| accttgaagc | agttctcggt  | gtgtagagtc | cacgtgacag  | tccccacagc  | ctccccagat  | 1020 |
| agctgtgtgc | ctgtgcgcta  | ctgctgtgcc | attttcccaa  | cttnggcgtt  | tcactaaatg  | 1080 |
| cagctgatct | ctctctctgt  | gcactcgtga | tcacatgttg  | acaatacatg  | taggttcttt  | 1140 |
| ttccacgcaa | tgtaagaaca  | tgatatactg | tacgttggaa  | agcatttacc  | ttatttatat  | 1200 |
| acctgaatgt | tcctactaca  | caaataaaca | tatattaaat  | wctaaaaaaa  | aaaaaaaaaa  | 1260 |
| ctggaggggg | ggcccgggtac | ccaaatcgcc | ggatagtgtat | cgtaaac     |             | 1307 |

<210> 241  
 <211> 888  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (830)  
 <223> n equals a,t,g, or c

<400> 241

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| ctgttagaat | gcccagttta  | cctggatggc  | aacccaacag | tgctcctgcc | cacctgcccc | 60  |
| tcaatcctcc | tagaattcag  | cccccaattg  | cccagttacc | aataaaaact | tgtacaccag | 120 |
| ccccagggag | agtctcaaat  | gcaaattccac | agagtgasmc | accacctcgg | gtagaatttg | 180 |
| atgacaacaa | tcccttttagt | gaaagtcttc  | aagaacggga | acgtaaggaa | cgtttacgag | 240 |
| aacagcaaga | gagacaacgg  | atccaactca  | tgacaggagt | agatagacaa | agagctttgc | 300 |

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| agcagaggat | ggaaatggag | cagcatggta  | tgggtgggctc | tgagataagt | agtagtagga | 360 |
| catctgtgtc | ccagattccc | ttctacagtt  | ccgacttacc  | ttgtgatttt | atgcaacctc | 420 |
| taggacctct | tcagcagctc | ccacaacacc  | aacagcaaatt | ggggcagggt | ttacagcagc | 480 |
| agaatataca | acaaggatca | attaattcac  | cctccaccca  | aactttcatg | cagactaatg | 540 |
| agcgaggcag | gtaggccctc | cttcatttgt  | tcctgattca  | ccatcaatcc | ctgttggaag | 600 |
| cccaaatttt | tcttctgtga | agcaggggaca | tggaaatctt  | tctgggacca | gcttccagca | 660 |
| gtccccagtg | aggccttctt | ttacacctgc  | tttaccagca  | gcacctccag | tagctaatag | 720 |
| cagtctccca | tgtggccaag | attctactat  | aacctcatgga | cacagttatc | cgggatcaac | 780 |
| ccaatcgctc | attcagttgt | attctgarat  | aatcccagag  | gaaaaagggn | aaaaaaaara | 840 |
| amaaraaara | araaaggaga | tgatgatgca  | gaattccacc  | aaggctcc   |            | 888 |

<210> 242  
 <211> 1811  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (4)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (16)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1810)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1811)  
 <223> n equals a,t,g, or c

|             |             |             |            |            |             |     |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| <400> 242   |             |             |            |            |             |     |
| cngncagttac | cggtcngatt  | cccgggtcga  | cccacgcgtc | cgctgcattc | cagggccttt  | 60  |
| cagtggtcttt | cattctgaag  | ttcctggata  | acatgttcca | tgtcttgatg | gcccagggtta | 120 |
| ccastgtcat  | tatcacaca   | gtgtctgtcc  | tggctcttga | cttcaggccc | tccttggaat  | 180 |
| ttttcttggga | agccscatca  | gtcstytctc  | ctatatttat | ttataatgcc | agcaagcctc  | 240 |
| aagttccgga  | atacgcacct  | aggcaagaaa  | ggatccgaga | tctaagtggc | aatctttggg  | 300 |
| agcgttccag  | tggggatgga  | gaagaactag  | aaagacttac | caaaccocag | agtgatgagt  | 360 |
| cagatgaaga  | tactttctaa  | ctgggtaccca | catagtttgc | agctctcttg | aaccttattt  | 420 |
| tcacattttc  | agtgtttgta  | atattttatc  | tttcactttg | ataaaccaga | aatgtttcta  | 480 |
| aatcctaata  | ttctttgcat  | atatctagct  | actccctaaa | tggttccatc | caaggcttag  | 540 |
| agtacccaaa  | ggctaagaaa  | ttctaaagaa  | ctgatacagg | agtaacaata | tgaagaattc  | 600 |
| attaatatct  | cagtacttga  | taaatcagaa  | agttatatgt | gcagattatt | ttccttgggc  | 660 |
| ttcaagcttc  | caaaaaactt  | gtaataatca  | tgttagctat | agcctgtata | tacacataga  | 720 |
| gatcaatttg  | ccaaatatc   | acaatcatgt  | agttctagtt | tacatgccaa | agtcctccct  | 780 |
| ttttaacatt  | ataaaaagcta | ggttggtctc  | tgaattttga | ggccctagag | atagtcattt  | 840 |
| tgcaagtaaa  | gagcaacggg  | acocctttcta | aaaacgttgg | ttgaagggac | taaatacctg  | 900 |

```

gccataccat agatttggga tgaatgtagtc tgtgctaaat attttgctga agaagcagtc 960
tctcagacac aacatctcag aatttttaatt tttagaaatt catgggaaat tggatttttg 1020
taataatctt ttgatgtttt aaacattggt tccctagtc ccatagttac cacttgcatt 1080
ttaagtcatt taaacaagcc acggtggggc tttttctctc tcagtttgag gagaaaaatc 1140
ttgatgtcat tactcctgaa ttattacatt ttggagaata agagggcatt ttattttatt 1200
agttactaat tcaagctgtg actattgtat atctttccaa gagttgaaat gctggcttca 1260
gaatcatacc agattgtcag tgaagctgat gcctaggaaac ttttaaaggg atcctttcaa 1320
aaggatcacc tagcaaacac atgttgactt ttaactgatg tatgaatatt aatactctaa 1380
aaatagaaaag accagtaata tataagtcac tttacagtgc tacttcacac ttaaaagtgc 1440
atggtatttt tcatggtatt ttgcatgcag ccagttaact ctctagata gagaagtcag 1500
gtgatagatg atattaaaaa ttagcaaaaca aaagtgactt gctcagggtc atgcagctgg 1560
gtgatgatag aagagtgggc tttaactggc aggcctgtat gtttacagac taccatactg 1620
taaatatgag ctttatggtg tcattctcag aaacttatac atttctgctc tctttctcc 1680
taagtttcat gcagatgaat ataaggtaat atactattat ataattcatt tgtgatatcc 1740
acaataatat gactggcaag aattggtgga aatttgtaat taaaataatt attaaaccta 1800
aaaaaaaaan n 1811

```

```

<210> 243
<211> 2271
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (553)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2267)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2269)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2271)
<223> n equals a,t,g, or c

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<400> 243
ctgacctcat ggcgtagagc ctagcaacag cgcaggctcc cagccgagtc cgttatggcc 60
gctgccgtcc cgaagaggat gagggggcca gcacaagcga aactgctgcc cgggtcggcc 120
atccaagccc ttgtggggtt ggcgcgcccg ctggtcttgg cgctcctgct tgtgtccgcc 180
gctctatcca gtgttgatgc acggactgat tcaccgagcc caaccgtact caactcacat 240
atttctaccc caaatgtgaa tgctttaaca catgaaaacc aaaccaaacc ttctatttcc 300
caaatcagca ccacctccc tcccacgacg agtaccaaga aaagtggagg agcatctgtg 360
gtccctcatc cctcgccctac tctctgtct caagaggaaag ctgataacaa tgaagatcct 420
agtatagagg aggaggatct tctcatgctg aacagttctc catccacagc caaagacact 480
ctagacaatg gcgattatgg agaaccagac tatgactgga ccacgggccc cagggacgac 540
gacgagtctg atngacacct tggaagaaaa caggggttac atggaaaattg aacagtcagt 600
gaaatctttt aagatgccat cctcaaatat agaaggaggaa gacagccatt tcttttttca 660
tcttattatt tttgtttttt gcattgctgt tgtttacatt acatattaca acaaaaggaa 720
gatttttctt ctggttcaaa gcaggaaatg gcgtgatggc ctttcttcca aaacagtgga 780
ataccatcgc ctagatcaga atgttaatga ggcaatgcct tctttgaaga ttaccaatga 840

```

```

ttatatTTTT taaagcactg tgatttgaat ttgcttatgt aattttatTT gcttgacttt 900
ttatatgata ttgtgcaaat gtttgccata ggcaattggT acttaaatga gaggtgagtc 960
tctctTTTTgc cttgggtgctt tggaaaattaa atgtcacaaa cgagtataata atTTTTtatc 1020
tgtactTTTta gagctgaggtt taatcagggtg tccaaaatgt gagttaaaca ttaccttata 1080
tttacactgt tagTTTTttat tgtTTtagat ttattatgct tcttctggaa gtattagtga 1140
tgctactTTt aaaagatccc aaacttgtaa ctaaaattctg acatatctgt tactgtgac 1200
tcacattcat tctccgccat tcaaatacta ttttttatcc acattTTTTt ttgttcccaa 1260
actgtaatgt acaaggatat gtgtgataat gctttggatt tgagtaatat ttttttttct 1320
tccaagaaaa ctgctttgga tatttttaga taatttaaac ataatttagg ataatgatat 1380
tgctcaatct gaccacaatt ttaggtaaaa cattaaatgt gtcaagaaat cttggcaaca 1440
gagactctgc agcttgcagt ggacatagat aaaatgttac agagatacta tttttttggT 1500
tggaattact atattaaatt tagaagcaga aactggtaaa atgttaaata catgtacaat 1560
tgcttttagt tagcaattga ttgtagcatg gggtcctcca aggtttcaag caatgggcag 1620
agttcaaaat tatatcagat tctgttactt cgtttattat ttacagtaa atttgaataa 1680
atcttagggg tcattatcac ttaaataata ctgtacctag gtctttcaaa ttaaaattat 1740
acctgaatga agttgtttgt atacataaag gatattttgtg tacaattacc ttttttcccc 1800
cacacttggt ttctttgttt ttgtttttta tggcaactgg aaagtattta ctatgggatt 1860
catttatgtc tgtctttcta tcataaagaa ttgatcaata tgtaaatatg tgatttgaac 1920
catggttgac ttacaagtgt cactacagct ttttagaaaa catagcccta atatatgtta 1980
agcaggaccc ggggtgagcca gtgggcttgc gctttatgta gagctggaag aaggccgtcc 2040
atcctgtctc ttgggcggac agtgtacttt cctaataagg aagggaagca caatggaaat 2100
accctgaac cgtttttattg cagtaatttt ttccatatct gaaactatta tttaatattt 2160
tgaataagat tttaaaaaat aaatggcaaa gatataaatc taaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanana n 2271

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<210> 244

<211> 2500

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2459)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2473)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2475)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2478)

<223> n equals a,t,g, or c

<400> 244

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tccaagctac gccactcggg ctggggcggtt gggagcggga gtgcagagcg tggtcgtggc 60
ggcggcggtg agaagagcga ggcgkaggag ggggtgccat ggccgggcag cagttccagt 120
acgatgacag tgggaacacc ttctctact tctcacctc ctctgtgggg ctcatcgtga 180
tcccgcgac atactacctc tggccccgag atcagaatgc cgagcaaatt cgattaaaga 240
atatcagaaa agtatatgga aggtgtatgt ggtacgttta cggttattaa aaccccagcc 300
aaatattatt cctacagtaa agaaaatagt tctgcttgca ggatgggcat tgttcttact 360

```

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| ccttgcatat  | aaagtttcca | aaacagaccg  | agaataccaa  | gaatacaatc  | cttatgaagt  | 420  |
| attaaatttg  | gatcctggag | ccacagtagc  | agaaattaaa  | aaacaatatc  | gtttgctgtc  | 480  |
| acttaaatat  | catccagata | aaggagggtga | tgagggttatg | ttcatgagga  | tagcaaaagc  | 540  |
| ttatgctgct  | ttaacggatg | aagagtccccg | gaaaaatttg  | gaagaatttg  | gaaatccaga  | 600  |
| tgggcctcaa  | gccacaagct | ttggaattgc  | cctgccagct  | tggatagtgtg | accagaaaaa  | 660  |
| ttcaattctg  | gttttacttg | tatatggatt  | ggcatttatg  | gttatccttc  | cagttgttgt  | 720  |
| gggctcttgg  | tggtatcgct | caatacgcta  | tagtggagac  | cagattctaa  | tacgsacaac  | 780  |
| acagatttat  | acatactttg | tttataaaac  | ccgaaatatg  | gatatgaaac  | gtcttatcat  | 840  |
| ggttttggst  | ggagcttctg | aatttgatcc  | tcagtataat  | aaagatgcca  | caagcagacc  | 900  |
| aacggataat  | attctaatac | cacagctaata | cagagaaatt  | ggcagcatta  | atttaaagaa  | 960  |
| gaatgagcct  | ccacttacct | gcccatatag  | cctgaaggcc  | agagttcttt  | tactgtctca  | 1020 |
| tcttgctaga  | atgaaaattc | ctgagaccct  | tgaagaagat  | cagcaattca  | tgctaaaaaa  | 1080 |
| gtgtctctgc  | ctacttcaag | aaatggttaa  | tgtaatctgc  | caactaatag  | taatggccccg | 1140 |
| gaaccgtgaa  | gaaagggagt | ttcgtgctcc  | aactttggca  | tccctagaaa  | actgcatgaa  | 1200 |
| gctttctcag  | atggccgttc | agggacttca  | gcaattttaag | tctccccttc  | tgcagctccc  | 1260 |
| tcataattgaa | gaggacaatc | ttagacgggt  | ttctaatacat | agaagtata   | aaatctaaaac | 1320 |
| tatccaggat  | ttggtgagtc | taaaagaatc  | agatcgtcac  | actctactgc  | acttccttga  | 1380 |
| agatgaaaaa  | tatgaagagg | ttatggctgt  | ccttgggagt  | tttccatatg  | tgaccttgga  | 1440 |
| tataaaatca  | caggtgttag | atgatgaaga  | tagcaacaac  | atcacagtag  | gacccctagt  | 1500 |
| tacagtgttg  | gttaagttga | caaggcaaac  | aatggctgaa  | gtatttgaaa  | aggagcagtc  | 1560 |
| catctgtget  | gcagaggaac | agccagcaga  | agatgggcag  | ggtgaaacta  | acaagaacag  | 1620 |
| gacaaaagga  | ggatggcaac | agaagagtaa  | aggacccaag  | aaaactgcta  | aatcaaaaaa  | 1680 |
| aaagaaacct  | ttaaaaaaac | aacctacacc  | tgtgctatta  | ccacagtcaa  | agcaacagaa  | 1740 |
| acaaaagcag  | gcaaatggag | tcgrrtggga  | tgaagctgca  | gtaaagggaag | atgaagaaga  | 1800 |
| agtttcagat  | aagggcagtg | attctgaaga  | agaagaaacc  | aatagagatt  | cccaaagtga  | 1860 |
| gaaagatgat  | ggtagtgaca | gagactctga  | tagagagcaa  | gatgaaaaac  | aaaacaaaga  | 1920 |
| tgatgaagca  | gagtggcaag | aattacaaca  | aagcatacag  | cgaaaagaga  | gagctctatt  | 1980 |
| ggaaacccaa  | tcaaaaaata | cacatcctgt  | gtatagcctt  | tactttcctg  | aggaaaaaca  | 2040 |
| agaatggttg  | tggctttaca | ttgcagatag  | gaaggagcag  | acattaatat  | ccatgccata  | 2100 |
| tcattgtgtg  | acgctgaaag | atacagagga  | ggtagagctg  | aagtttctctg | caccaggcaa  | 2160 |
| gcttggaat   | tatcagtata | ctgtgtttct  | gagatcagac  | tcctatatgg  | gtttggatca  | 2220 |
| gattaaacca  | ttggaagttk | ggaagtccat  | gaggctgaag  | cctgtgccag  | aaaatcacc   | 2280 |
| acagtgggat  | acagcaatag | aggggggatga | agaccaggag  | gacagtgagg  | gctttgaaga  | 2340 |
| tagctttgag  | ggaggaagag | ggagggagga  | aggaagggtg  | tggacttaag  | gcagttactc  | 2400 |
| tggaatggga  | cccacagtgt | tttgcaccat  | attttgccaa  | ttttttttgc  | ccgtttttng  | 2460 |
| gaagtgtttt  | ccntnaancc | caggaaacct  | tacagaaccg  |             |             | 2500 |

<210> 245  
 <211> 1338  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (133)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (867)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1338)  
 <223> n equals a,t,g, or c

&lt;400&gt; 245

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| cttcggttc   | tccgggcagc  | tgccactgct  | gtagcttctg  | ccacctgcca  | cgaccggggc  | 60   |
| tctccctggc  | gtttgggcac  | ctctgcttca  | ttctccaccg  | cgccataggt  | ccctcttggg  | 120  |
| gccagcgtgg  | cgngcctggc  | ggctcccggg  | tggtagagag  | gcgggtccggg | aacgatgaag  | 180  |
| gcctcgcaat  | gctgctgctg  | tctcagccac  | ctcttggctt  | ccgtcctcct  | cctgctgttg  | 240  |
| ctgcctgaac  | taagcgggyc  | cctggmagtc  | ctgctgcagg  | cagccgaggg  | cgcgccaggt  | 300  |
| yttgggcttc  | ctgaccctag  | accaggacat  | taccgcccgt  | gccaccgggc  | cctwaccctt  | 360  |
| gcccagcagc  | cgggccgtgg  | tctggctgaa  | gctgcggggg  | ccgcgggggt  | ccgagggagg  | 420  |
| caatggcagc  | aaccctgtgg  | ccgggcttga  | gacggacgat  | cacggaggga  | aggccgggga  | 480  |
| argctcggtg  | ggtggcggcc  | ttgctgtgag  | ccccaacctt  | ggcgacaagc  | ccatgaccca  | 540  |
| gcgggcccctg | accgtgttga  | tgggtgtgag  | cgggcggggtg | ctgggtgtact | tcgtgggtcag | 600  |
| gacggtcagg  | atgagaagaa  | gaaaccgaaa  | gactaggaga  | tatggagttt  | tggacactaa  | 660  |
| catagaaaaat | atgggaattga | caacctttaga | acaggatgat  | gaggatgatg  | acaacacgtt  | 720  |
| gtttgatgcc  | aatcatcctc  | gaagataaga  | atgtgccttt  | tgatgaaaga  | actttatctt  | 780  |
| tctacaatga  | agagtggaa   | ttctatgttt  | aaggaataag  | aagccactat  | atcaatgttg  | 840  |
| gggggggtatt | taagttacat  | atattttnaac | aacctttaat  | ttgctgttgc  | aataaatacc  | 900  |
| gtarccctttt | attatatctt  | tatatgtata  | gaagtactct  | gttaatgggc  | tcagagatgt  | 960  |
| tggggataaaa | gtatactgta  | ataattttatc | tgtttgaaaa  | ttactataaa  | acggtgtttt  | 1020 |
| ctgrtcgggt  | tttgttttct  | gcttaaccata | tgattgtaaa  | ttgttttatg  | tattaatcag  | 1080 |
| ttaatgctaa  | ttatttttgc  | tgatgtcata  | tgttaaagag  | ctataaattc  | caacaaccaa  | 1140 |
| ctggtgtgta  | aaaataattt  | aaaatytcct  | ttactgaaag  | gtattttcca  | tttttgtggg  | 1200 |
| gaaaagaagc  | caaattttatt | actttgtgtt  | gggggttttta | aaatattaag  | aaatgtctaa  | 1260 |
| gttattgttt  | gcaaaacaat  | aaatatgatt  | ttaaattctc  | ttaaaaaaaa  | aaaaaaaaac  | 1320 |
| ccccggggggg | ggccccggn   |             |             |             |             | 1338 |

&lt;210&gt; 246

&lt;211&gt; 654

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (651)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 246

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| gaattcggca | cgaggcagct | tgtgctttta  | aggaggtgtt | caaagcatgt | ctgagcagag  | 60  |
| acttttgggc | tctgttttta | ttataacttt  | aaaataattc | atatttataa | tatcaratgt  | 120 |
| ttccataaag | aggaggatgt | ttaaatgcct  | ccagactaca | ttccttttta | ttsccttgatt | 180 |
| ttacctggga | gtccaaagtt | caattcccat  | aaagcaagcg | ttttatttgt | cactttcaat  | 240 |
| atacatccga | ttgccatgct | taagatgcaa  | tatgggctgc | ggaaataggt | taaccacag   | 300 |
| gctcccaggg | cccagtgtag | aagggtgagag | attcgtgtta | aatgattcaa | ataaaaggaa  | 360 |
| gaccctggcc | gggtgccgta | rtccacgcct  | gtaatccag  | cactttggga | ggccgaagcg  | 420 |
| agtggatgac | gaggttagga | gttgagagcc  | agcctggcca | acatcgtgaa | accccgctct  | 480 |
| tactaaaaat | acaaaaatta | gccggggcatg | gtggcaggga | cctgtaatcc | tagctagtgtg | 540 |
| ggaggctgag | gcaggagaat | cgtttgaatc  | tgggagttgg | agggtgtcag | tgagctgaga  | 600 |
| tcgcgccaca | gcactccagc | ctgggtgaca  | gggtgagact | ctgtctcaaa | naga        | 654 |

&lt;210&gt; 247

&lt;211&gt; 1146

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)



<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (37)

<223> n equals a,t,g, or c

<400> 247

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| aaaaaaaaacc | caggggaacn  | ttggggggcgc | ctttnnnttc | cccctccagg | ccattggggga | 60   |
| attcttcaag  | ttaatcctgc  | tttgetottg  | gccaacaggg | cttgtagggg | ggagagaccc  | 120  |
| aggatcatca  | aggggttcga  | gtgcaagcct  | cactcccagc | cctggcaggc | agccctgttc  | 180  |
| gagaagacgc  | ggctactctg  | tggggcgacg  | ctcatcgccc | ccagatggct | cctgacagca  | 240  |
| gcccactgcc  | tcaagcccg   | ctacatagtt  | cacctggggc | agcacaacct | ccagaaggag  | 300  |
| gagggctgtg  | agcagaccgc  | gacagccact  | gagtccttcc | cccaccccg  | cttcaacaac  | 360  |
| agcctcccca  | acaaagacca  | cgcgaatgac  | atcatgctgg | tgaagatggc | atcgccagtc  | 420  |
| tccatcacct  | gggctgtgcg  | acccctcacc  | ctctcctcac | gctgtgtcac | tgctggcacc  | 480  |
| agctgyctca  | tttccggctg  | gggcagmacg  | tccagcccc  | agttacgcct | gcctcacacc  | 540  |
| ttgsgatgcy  | ccaacatcac  | catcattgag  | caccagaagt | gtgagaacgc | ctaccccggc  | 600  |
| aacatcacag  | acaccatggt  | gtgtgocagc  | gtgcaggaag | ggggcaagga | ctcctgccag  | 660  |
| ggtgactccg  | ggggccctct  | ggtctgtaac  | cagtctcttc | aaggcattat | ctcctggggc  | 720  |
| caggatccgt  | gtgcgatcac  | cgcgaagcct  | ggtgtctaca | cgaaagtctg | caaatatgtg  | 780  |
| gactggatcc  | aggagacgat  | gaagaacaat  | tagactggac | ccacccacca | cagcccatca  | 840  |
| ccctccattt  | ccacttgggtg | tttgggtctc  | gttcactctg | ttaataagaa | accctaagcc  | 900  |
| aagaccctct  | acgaacattc  | tttgggcctc  | ctggactaca | ggagatgctg | tcacttaata  | 960  |
| atcaacctgg  | ggttcgaaat  | cagtgaagacc | tggattcaaa | ttctgccttg | aaatattgtg  | 1020 |
| actctgggaa  | tgacaacacc  | tggtttgttc  | tctgttgtat | ccccagcccc | aaagacagct  | 1080 |
| cctggccata  | tatcaagggt  | tcaataaata  | tttgctaaat | gaaaaaaraa | aaaaaaaaaa  | 1140 |
| actcga      |             |             |            |            |             | 1146 |

<210> 248

<211> 1443

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (776)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (907)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1288)

<223> n equals a,t,g, or c

<400> 248

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| ataaactgaa | ataggtcatg  | caaataataa  | atattatttt  | taaattattt  | gtcataagaa  | 60   |
| acgatgggtg | ccatattttg  | ctttaataat  | ggaaaaaatg  | tggttagcat  | tctktggaag  | 120  |
| gtggtcatca | gatagtagac  | attttctagg  | atttatttct  | acctgcatat  | gtggaaatgt  | 180  |
| gtactacttt | agatttatwt  | aatggcagct  | aactcagagg  | catcaaaatg  | tgctaattggt | 240  |
| gtaatatggc | ctttgtcttg  | ctgtyctgtt  | ttgtargcct  | tcaatcaagc  | argggcaggg  | 300  |
| ccgtacagtg | aacttgtcct  | ttgscagacg  | ccagcgtctg  | ccoctgaccc  | cgtctccact  | 360  |
| ctctgtgtcc | tggaggagga  | gccccttgat  | gcytacccctg | attcaccttc  | tgcgtgcctt  | 420  |
| gtactgaact | gggaagagcc  | gtgcaataac  | ggatctgaaa  | tccttgctta  | caccattgat  | 480  |
| ctaggagaca | ctagcattac  | cgtgggcaac  | accaccatgc  | atggtatgaa  | agatctcctt  | 540  |
| ccagaaacca | cctaccgggtg | agtgcagggtg | agtagaaatc  | tgcatacagca | catcagcact  | 600  |
| tggggatcta | agtaaaccctc | tcggggaaaa  | tgaccaagtg  | gatgtcatct  | cccagctggt  | 660  |
| tctaagagcc | cagatgtcca  | gagtattgtc  | tcaccttgat  | ccctcaggcc  | agaagacctg  | 720  |
| tgaaaaagcc | acactgggtc  | agggactcac  | tggacgggtt  | tgtgtccact  | ytacntgca   | 780  |
| ccgtctctac | cccagagtgg  | actcaratcc  | tcaagtcac   | ctctgaacat  | tgrrgtcaga  | 840  |
| aattataaaa | gggctttggc  | aatatgttag  | cccaagaatt  | tggcttcttc  | cagaaattgt  | 900  |
| gccgacntta | acagtggctt  | aaatgatggt  | aaaactttta  | agattttctaa | aaggrtggca  | 960  |
| ttggagatac | gttgactttt  | attaaacmac  | ctatagttgt  | ttaatgaytt  | ctaaaaaaat  | 1020 |
| atctggagct | caggggttca  | actgagggaa  | cacatgttga  | gratcattgt  | ttactaatta  | 1080 |
| aatgccaggt | aaccggttga  | aattatcaaa  | aacatcttcc  | acgtaccaga  | aagcacctca  | 1140 |
| gaggatagtt | ctgttatgga  | gaagatgaaa  | tggttttagta | gtgttaggaac | tatggaaagg  | 1200 |
| tgagcttaga | tttgatagtt  | aaaacctcaa  | gacctatatt  | aaaaagtatt  | ttatgaatgc  | 1260 |
| agcataaata | atttaattca  | gtgttaanat  | gccaaggcta  | gtatattgag  | ctgaatgtga  | 1320 |
| aaagaaactc | acattgggag  | aatgccacct  | tttctttata  | agatagcttt  | gaagataacca | 1380 |
| ttttagacag | atggaaattg  | aatagcttta  | gaaaaggcaa  | atgttttgatc | ttggggaaaa  | 1440 |
| aaa        |             |             |             |             |             | 1443 |

<210> 249

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 249

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Ser | Thr | Gly | Ile | Glu | Val | Ala | Arg | Pro | Pro | Ala | Thr | Leu | Leu |
| 1   |     |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Met | Phe | Val | Leu | Thr | Gly | Met | Pro | Arg | Gly | Leu | Arg | Xaa |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |

<210> 250

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals stop translation

<400> 250  
 Met Asn Val Val Ile Val Ile Ile Leu Phe Ser Phe Asp Ser Val Gly  
           1                  5                  10                  15  
 Thr Met Phe Ser Cys Asn Arg Ile Pro Lys Ile Thr Val Leu Asn Lys  
                   20                  25                  30  
 Leu Lys Phe Xaa Cys Glu Val Leu Leu Arg Ile Gln Thr Ile Gln Gly  
           35                  40                  45  
 Phe Tyr Arg Cys Thr Arg Ile Ser Arg Tyr Lys Gly Ile Phe Pro Asp  
           50                  55                  60  
 Phe Cys Gln Ser Gln Cys Met Gly Cys Asn Pro Glu Ser Xaa Met Ala  
           65                  70                  75                  80  
 Val Pro Ala Leu Val Thr Pro Ile Leu Ala His Arg Lys Lys Glu Lys  
                   85                  90                  95  
 Gly Met Cys Leu Phe Thr Leu Ile Ile Ala Pro Thr Arg Cys Thr His  
                   100                  105                  110  
 Tyr Phe Cys Xaa  
           115

<210> 251  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals stop translation

<400> 251  
 Met Ser Ser Ala Lys Ile Val Arg Gln Arg Gly Ala Val Pro Thr Tyr  
           1                  5                  10                  15  
 Tyr Thr Thr Glu Ala Gly Glu Ile Ile Phe Leu Val Leu Asn Trp Ser  
                   20                  25                  30  
 Leu Ser Ile Leu His Ile Val Asp Val Leu Cys Ser Lys Pro Glu Lys  
           35                  40                  45  
 Ser Val Thr Glu Asp Ala Ala Ser Gly Leu Ser Gln Arg Met Thr Ala  
           50                  55                  60

Leu Val Trp Arg Lys Gly Pro Asp Gly Gly Ser Arg Lys Pro Ile Leu  
 65 70 75 80

Leu Leu Phe Phe Phe Leu Pro Leu Ile Leu Cys Phe His Ser Phe Ile  
 85 90 95

His Ser Ser Asn Ile Cys Xaa  
 100

<210> 252  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 252  
 Met Ile Leu Phe Pro Gln Xaa Ala Leu Arg Leu Gly Xaa Trp Pro Arg  
 1 5 10 15

Thr Trp Ser Ile Leu Xaa Lys Tyr Ser Val Asn Phe Phe Ser Ala Tyr  
 20 25 30

Ser Pro Met Gly Ala Val Gly Thr Glu Phe  
 35 40

<210> 253  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals stop translation

<400> 253

Met Ile Ile Leu Leu Leu Phe Met Leu Leu Asn Asn Val Val Leu Val  
 1 5 10 15

Gln Glu Asp Asn Cys Gln Arg Lys Asn Thr Val Gln Glu Arg Arg Xaa  
 20 25 30

Trp Ser Gln Trp Xaa  
 35

<210> 254

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals stop translation

<400> 254

Met Ala Ala Xaa Pro Pro Gly Cys Thr Pro Pro Xaa Leu Leu Asp Ile  
 1 5 10 15

Ser Trp Leu Thr Glu Ser Leu Gly Ala Gly Gln Pro Val Pro Val Glu  
 20 25 30

Cys Arg His Arg Leu Glu Val Ala Gly Pro Arg Lys Gly Pro Leu Ser  
 35 40 45

Pro Ala Trp Met Pro Ala Tyr Ala Cys Gln Arg Pro Thr Pro Leu Thr  
 50 55 60

His His Asn Thr Gly Leu Ser Glu Leu Leu Glu His Gly Val Cys Glu  
 65 70 75 80

Glu Val Glu Arg Val Arg Arg Ser Glu Arg Tyr Gln Thr Met Lys Val  
 85 90 95

Arg Arg Ala Gly Leu Gly Pro Thr Pro Gly Met Ser Cys Pro Gly Asn  
 100 105 110

Asp Asn Thr Val His Thr Met His Gly Glu Ala Asn Arg Gly Ser Xaa  
 115 120 125

<210> 255  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals stop translation

<400> 255  
 Met Ser Ile Leu Cys Cys Pro Xaa Leu Cys Leu Phe Phe Ser Phe Cys  
           1                  5                  10                  15  
 Ile Ser Ser Gly Ser Cys Pro Phe Ser His Val Ser Gln Leu Ser Phe  
                   20                  25                  30  
 Ile Ala Thr Phe Ser Gln Ser Ser Pro Val Leu Leu Val Pro Ala Tyr  
           35                  40                  45  
 Asn Thr Tyr Leu Ser Phe Leu Ala Phe Leu Asp Cys Ala Ser Leu Thr  
           50                  55                  60  
 Ser Thr Xaa  
           65

<210> 256  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals stop translation

<400> 256  
 Met Ser Thr Phe Gln Leu Leu Leu Leu Ile Leu Ala Gln Ser Thr Tyr  
           1                  5                  10                  15  
 Lys Ile Lys Ser Lys Pro Leu His Met Thr Asn His Thr Leu Leu Asn  
                   20                  25                  30  
 Ser Pro Gly Leu Asn Pro Ser Ser Pro Thr Leu Asn Phe Lys Thr Gln  
           35                  40                  45  
 Gln His Glu Ser Val Ser Tyr Ala Cys Cys His Met Arg Ser Leu His  
           50                  55                  60  
 His Ala Phe Ala Xaa  
           65

<210> 257  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

<400> 257  
 Met Val Ser Val Val Leu Ile Phe Ser Phe Leu Ser Leu Thr Ile Ser  
           1                  5                  10                  15

Thr Thr Ala Ser Ala Tyr Asn Gly Asn Asp Thr Gln Gly Trp Asn Asp  
                   20                  25                  30

Lys Phe His Xaa Xaa Ser Val Lys Thr Gln Thr Xaa  
                   35                  40

<210> 258  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals stop translation

<400> 258  
 Met Ile Ser Asp Ala Gly Ala Gly Phe Gly Val Phe Leu Leu Val Pro  
           1                  5                  10                  15

Arg Ala Gly His Cys Trp Gly Ala Gly Lys Pro Leu Pro Ser Cys Pro  
                   20                  25                  30

Ser Val Ala Ser Ile Pro Ser Trp Val Leu Pro Ser Phe Leu Glu Arg  
                   35                  40                  45

Gly Arg Xaa  
           50

<210> 259

<211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals stop translation

<400> 259  
 Met Val Gln Thr Ile Gln Asp Phe Leu Ser Leu Phe Ser Thr Pro Ile  
           1                  5                  10                  15

Phe Leu Leu Leu Leu Met Phe Glu Thr Leu Ser Leu Ala Pro Ala Trp  
                   20                  25                  30

Leu Lys Pro Leu Arg Val Thr Ser His Ser Xaa  
                   35                  40

<210> 260  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals stop translation

<400> 260  
 Met Ile Leu Met Pro Gly Leu Gly Thr Ser Arg Gln Arg Ser Val Pro  
           1                  5                  10                  15

Phe Val Pro Thr Leu Asn Ala Ser Thr Pro Gly Ala Met Thr Gly Pro  
                   20                  25                  30

Thr Ala Thr Leu Thr Ser Cys Gln Trp Thr Thr Ala Cys Arg Val Ser  
           35                  40                  45

Trp Ala Asn Gly Trp Thr Ser Leu Arg Thr Phe Arg Xaa  
           50                  55                  60

<210> 261  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals stop translation

<400> 261  
 Met Ser His His Ala Gln Pro Arg Phe Leu Leu Ile Thr Met Leu Leu  
           1                  5                  10                  15



Gln Glu Ala Lys Pro Val Ser Asn Ile Pro His Leu Leu Glu Ser Trp  
                   20                  25                  30

Tyr Phe Gly Xaa  
                   35

<210> 262  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals stop translation

<400> 262  
 Met Asn Ser Leu Phe Trp Met Ile Leu Leu Pro Val Ser Gln Asp Gln  
           1                  5                  10                  15

Val Val Glu Gly Leu Gln Gly Gly Phe Ser Gln Ile His Met Arg Ile  
                   20                  25                  30

Leu Arg Lys His Leu Xaa  
                   35

<210> 263  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals stop translation

<400> 263  
 Met Ser Arg Ser Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala  
           1                  5                  10                  15

Ala Ser Ile Tyr Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala  
                   20                  25                  30

Leu His Gln Gly Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile  
           35                  40                  45

Leu Leu Lys Leu Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg  
           50                  55                  60

Met Gln Asp Leu Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala  
           65                  70                  75                  80

Trp Val Ser Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr  
85 90 95

Ile Phe Gln Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu  
100 105 110

Asn Gly Gln Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala  
115 120 125

Glu Gly Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu  
130 135 140

Thr Leu Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro  
145 150 155 160

Glu Val Thr Asn Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser  
165 170 175

His Pro Phe Ile Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg  
180 185 190

Leu Val Leu Gln Tyr Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser  
195 200 205

Gly Pro Xaa  
210

<210> 264

<211> 548

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (548)

<223> Xaa equals stop translation

<400> 264

Met Glu Asp Ser Glu Ala Leu Gly Phe Glu His Met Gly Leu Asp Pro  
1 5 10 15

Arg Leu Leu Gln Ala Val Thr Asp Leu Gly Trp Ser Arg Pro Thr Leu  
20 25 30

Ile Gln Glu Lys Ala Ile Pro Leu Ala Leu Glu Gly Lys Asp Leu Leu  
35 40 45

Ala Arg Ala Arg Thr Gly Ser Gly Lys Thr Ala Ala Tyr Ala Ile Pro  
50 55 60

Met Leu Gln Leu Leu Leu His Arg Lys Ala Thr Gly Pro Val Val Glu  
65 70 75 80

Gln Ala Val Arg Gly Leu Val Leu Val Pro Thr Lys Glu Leu Ala Arg  
85 90 95

Gln Ala Gln Ser Met Ile Gln Gln Leu Ala Thr Tyr Cys Ala Arg Asp  
 100 105 110  
 Val Arg Val Ala Asn Val Ser Ala Ala Glu Asp Ser Val Ser Gln Arg  
 115 120 125  
 Ala Val Leu Met Glu Lys Pro Asp Val Val Val Gly Thr Pro Ser Arg  
 130 135 140  
 Ile Leu Ser His Leu Gln Gln Asp Ser Leu Lys Leu Arg Asp Ser Leu  
 145 150 155 160  
 Glu Leu Leu Val Val Asp Glu Ala Asp Leu Leu Phe Ser Phe Gly Phe  
 165 170 175  
 Glu Glu Glu Leu Lys Ser Leu Leu Cys His Leu Pro Arg Ile Tyr Gln  
 180 185 190  
 Ala Phe Leu Met Ser Ala Thr Phe Asn Glu Asp Val Gln Ala Leu Lys  
 195 200 205  
 Glu Leu Ile Leu His Asn Pro Val Thr Leu Lys Leu Gln Glu Ser Gln  
 210 215 220  
 Leu Pro Gly Pro Asp Gln Leu Gln Gln Phe Gln Val Val Cys Glu Thr  
 225 230 235 240  
 Glu Glu Asp Lys Phe Leu Leu Leu Tyr Ala Leu Leu Lys Leu Ser Leu  
 245 250 255  
 Ile Arg Gly Lys Ser Leu Leu Phe Val Asn Thr Leu Glu Arg Ser Tyr  
 260 265 270  
 Arg Leu Arg Leu Phe Leu Glu Gln Phe Ser Ile Pro Thr Cys Val Leu  
 275 280 285  
 Asn Gly Glu Leu Pro Leu Arg Ser Arg Cys His Ile Ile Ser Gln Phe  
 290 295 300  
 Asn Gln Gly Phe Tyr Asp Cys Val Ile Ala Thr Asp Ala Glu Val Leu  
 305 310 315 320  
 Gly Ala Pro Val Lys Gly Lys Arg Arg Gly Arg Gly Pro Lys Gly Asp  
 325 330 335  
 Lys Ala Ser Asp Pro Glu Ala Gly Val Ala Arg Gly Ile Asp Phe His  
 340 345 350  
 His Val Ser Ala Val Leu Asn Phe Asp Leu Pro Pro Thr Pro Glu Ala  
 355 360 365  
 Tyr Ile His Arg Ala Gly Arg Thr Ala Arg Ala Asn Asn Pro Gly Ile  
 370 375 380  
 Val Leu Thr Phe Val Leu Pro Thr Glu Gln Phe His Leu Gly Lys Ile  
 385 390 395 400  
 Glu Glu Leu Leu Ser Gly Glu Asn Arg Gly Pro Ile Leu Leu Pro Tyr

| 405   |     |     |     |     |     |     |     |     |     | 410 |     |     |     |     |     |  |  |  |  | 415 |  |  |  |  |  |  |  |  |  |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|
| Gln   | Phe | Arg | Met | Glu | Glu | Ile | Glu | Gly | Phe | Arg | Tyr | Arg | Cys | Arg | Asp |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 420   |     |     |     |     |     |     |     |     |     | 425 |     |     |     |     |     |  |  |  |  | 430 |  |  |  |  |  |  |  |  |  |
| Ala   | Met | Arg | Ser | Val | Thr | Lys | Gln | Ala | Ile | Arg | Glu | Ala | Arg | Leu | Lys |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 435   |     |     |     |     |     |     |     |     |     | 440 |     |     |     |     |     |  |  |  |  | 445 |  |  |  |  |  |  |  |  |  |
| Glu   | Ile | Lys | Glu | Glu | Leu | Leu | His | Ser | Glu | Lys | Leu | Lys | Thr | Tyr | Phe |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 450   |     |     |     |     |     |     |     |     |     | 455 |     |     |     |     |     |  |  |  |  | 460 |  |  |  |  |  |  |  |  |  |
| Glu   | Asp | Asn | Pro | Arg | Asp | Leu | Gln | Leu | Leu | Arg | His | Asp | Leu | Pro | Leu |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 465   |     |     |     |     |     |     |     |     |     | 470 |     |     |     |     |     |  |  |  |  | 475 |  |  |  |  |  |  |  |  |  |
| His   | Pro | Ala | Val | Val | Lys | Pro | His | Leu | Gly | His | Val | Pro | Asp | Tyr | Leu |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 485   |     |     |     |     |     |     |     |     |     | 490 |     |     |     |     |     |  |  |  |  | 495 |  |  |  |  |  |  |  |  |  |
| Val   | Pro | Pro | Ala | Leu | Arg | Gly | Leu | Val | Arg | Pro | His | Lys | Lys | Arg | Lys |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 500   |     |     |     |     |     |     |     |     |     | 505 |     |     |     |     |     |  |  |  |  | 510 |  |  |  |  |  |  |  |  |  |
| Lys   | Leu | Ser | Ser | Ser | Cys | Arg | Lys | Ala | Lys | Arg | Ala | Lys | Ser | Gln | Asn |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 515   |     |     |     |     |     |     |     |     |     | 520 |     |     |     |     |     |  |  |  |  | 525 |  |  |  |  |  |  |  |  |  |
| Pro   | Leu | Arg | Ser | Phe | Lys | His | Lys | Gly | Lys | Lys | Phe | Arg | Pro | Thr | Ala |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 530   |     |     |     |     |     |     |     |     |     | 535 |     |     |     |     |     |  |  |  |  | 540 |  |  |  |  |  |  |  |  |  |
| Lys Pro Ser Xaa   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 545   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| <210> 265   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| <211> 299   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| <212> PRT   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| <213> Homo sapiens  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| <400> 265   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| Met   | Thr | Thr | Val | Pro | Pro | Ser | Pro | Arg | Pro | Met | Ser | Arg | Pro | Ser | Glu |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 1   |     |     |     |     |     |     |     |     |     | 5   |     |     |     |     |     |  |  |  |  | 10  |  |  |  |  |  |  |  |  |  |
| Arg   | Asn | Met | Arg | Arg | Pro | Arg | Gly | Pro | Ser | Pro | Leu | Pro | Ala | Ser | Pro |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 20  |     |     |     |     |     |     |     |     |     | 25  |     |     |     |     |     |  |  |  |  | 30  |  |  |  |  |  |  |  |  |  |
| Arg   | Asn | Ser | Thr | Pro | Asp | Glu | Pro | Asp | Val | His | Phe | Ser | Lys | Lys | Phe |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 35  |     |     |     |     |     |     |     |     |     | 40  |     |     |     |     |     |  |  |  |  | 45  |  |  |  |  |  |  |  |  |  |
| Leu   | Asn | Val | Phe | Met | Ser | Gly | Arg | Ser | Arg | Ser | Ser | Ser | Ala | Glu | Ser |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 50  |     |     |     |     |     |     |     |     |     | 55  |     |     |     |     |     |  |  |  |  | 60  |  |  |  |  |  |  |  |  |  |
| Phe   | Gly | Leu | Phe | Ser | Cys | Ile | Ile | Asn | Gly | Glu | Glu | Gln | Glu | Gln | Thr |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 65  |     |     |     |     |     |     |     |     |     | 70  |     |     |     |     |     |  |  |  |  | 75  |  |  |  |  |  |  |  |  |  |
| His   | Arg | Ala | Ile | Phe | Arg | Phe | Val | Pro | Arg | His | Glu | Asp | Glu | Leu | Glu |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 85  |     |     |     |     |     |     |     |     |     | 90  |     |     |     |     |     |  |  |  |  | 95  |  |  |  |  |  |  |  |  |  |
| Leu   | Glu | Val | Asp | Asp | Pro | Leu | Leu | Val | Glu | Leu | Gln | Ala | Glu | Asp | Tyr |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 100   |     |     |     |     |     |     |     |     |     | 105 |     |     |     |     |     |  |  |  |  | 110 |  |  |  |  |  |  |  |  |  |
| Trp Tyr Glu Ala Tyr Asn Met Arg Thr Gly Ala Arg Gly Val Phe Pro |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |     |  |  |  |  |  |  |  |  |  |

| 115  | 120 | 125     |
|--|-----|---------|
| Ala Tyr Tyr Ala Ile Glu Val Thr Lys Glu Pro Glu His Met Ala Ala<br>130 | 135 | 140     |
| Leu Ala Lys Asn Ser Asp Trp Val Asp Gln Phe Arg Val Lys Phe Leu<br>145 | 150 | 155 160 |
| Gly Ser Val Gln Val Pro Tyr His Lys Gly Asn Asp Val Leu Cys Ala<br>165 | 170 | 175     |
| Ala Met Gln Lys Ile Ala Thr Thr Arg Arg Leu Thr Val His Phe Asn<br>180 | 185 | 190     |
| Pro Pro Ser Ser Cys Val Leu Glu Ile Ser Val Arg Gly Val Lys Ile<br>195 | 200 | 205     |
| Gly Val Lys Ala Asp Asp Ser Gln Glu Ala Lys Gly Asn Lys Cys Ser<br>210 | 215 | 220     |
| His Phe Phe Gln Leu Lys Asn Ile Ser Phe Cys Gly Tyr His Pro Lys<br>225 | 230 | 235 240 |
| Asn Asn Lys Tyr Phe Gly Phe Ile Thr Lys His Pro Ala Asp His Arg<br>245 | 250 | 255     |
| Phe Ala Cys His Val Phe Val Ser Glu Asp Ser Thr Lys Ala Leu Ala<br>260 | 265 | 270     |
| Glu Ser Val Gly Arg Ala Phe Gln Gln Phe Tyr Lys Gln Phe Val Glu<br>275 | 280 | 285     |
| Tyr Thr Cys Pro Thr Glu Asp Ile Tyr Leu Glu<br>290                     | 295 |         |

&lt;210&gt; 266

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 266

|   |
|---|
| Leu Leu Tyr Leu Leu Lys Val Xaa Val Ile Phe Val Phe Ser Ser Ser |
| 1 5 10 15   |

|   |
|---|
| Lys Gly Val Thr Leu Val Ser Met Asn Leu Thr Ser Phe Phe Val Ser |
| 20 25 30  |

Ser Val Leu Ala Cys Phe Ser Xaa  
           35                          40

<210> 267

<211> 594

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 267

Met Pro Ala Ser Ser Leu Glu Ser Arg Ser Phe Leu Leu Ala Lys Lys  
       1                      5                      10                      15

Ser Gly Glu Asn Val Ala Lys Phe Ile Ile Asn Ser Tyr Pro Lys Tyr  
                       20                      25                      30

Phe Gln Lys Asp Ile Ala Glu Pro His Ile Pro Cys Leu Met Pro Glu  
                       35                      40                      45

Tyr Phe Glu Pro Gln Ile Lys Asp Ile Ser Glu Ala Ala Leu Lys Glu  
       50                      55                      60

Arg Ile Glu Leu Arg Lys Val Lys Ala Ser Val Asp Met Phe Asp Gln  
       65                      70                      75                      80

Leu Leu Gln Ala Gly Thr Thr Val Ser Leu Glu Thr Thr Asn Ser Leu  
                       85                      90                      95

Leu Asp Xaa Leu Cys Tyr Tyr Gly Asp Gln Glu Pro Ser Thr Asp Tyr  
                       100                      105                      110

His Phe Gln Gln Thr Gly Gln Ser Glu Ala Leu Glu Glu Glu Asn Asp  
                       115                      120                      125

Glu Thr Ser Arg Arg Lys Ala Gly His Gln Phe Gly Val Thr Trp Arg  
       130                      135                      140

Ala Lys Asn Asn Ala Glu Arg Ile Phe Ser Leu Met Pro Glu Lys Asn  
       145                      150                      155                      160

Glu His Ser Tyr Cys Thr Met Ile Arg Gly Met Val Lys His Arg Ala  
                       165                      170                      175

Tyr Glu Gln Ala Leu Asn Leu Tyr Thr Glu Leu Leu Asn Asn Arg Leu  
                       180                      185                      190

His Ala Asp Val Tyr Thr Phe Asn Ala Leu Ile Glu Ala Thr Val Cys  
                       195                      200                      205

Ala Ile Asn Glu Lys Phe Glu Glu Lys Trp Ser Lys Ile Leu Glu Leu  
       210                      215                      220

Leu Arg His Met Val Ala Gln Lys Val Lys Pro Asn Leu Gln Thr Phe

|   |     |     |  |     |  |     |
|---|-----|-----|--|-----|--|-----|
| 225   |     | 230 |  | 235 |  | 240 |
| Asn Thr Ile Leu Lys Cys Leu Arg Arg Phe His Val Phe Ala Arg Ser |     |     |  |     |  |     |
|   | 245 |     |  | 250 |  | 255 |
| Pro Ala Leu Gln Val Leu Arg Glu Met Lys Ala Ile Gly Ile Glu Pro |     |     |  |     |  |     |
|   | 260 |     |  | 265 |  | 270 |
| Ser Leu Ala Thr Tyr His His Ile Ile Arg Leu Phe Asp Gln Pro Gly |     |     |  |     |  |     |
|   | 275 |     |  | 280 |  | 285 |
| Asp Pro Leu Lys Arg Ser Ser Phe Ile Ile Tyr Asp Ile Met Asn Glu |     |     |  |     |  |     |
|   | 290 |     |  | 295 |  | 300 |
| Leu Met Gly Lys Arg Phe Ser Pro Lys Asp Pro Asp Asp Asp Lys Phe |     |     |  |     |  |     |
|   | 305 |     |  | 310 |  | 315 |
|   |     |     |  |     |  | 320 |
| Phe Gln Ser Ala Met Ser Ile Cys Ser Ser Leu Arg Asp Leu Glu Leu |     |     |  |     |  |     |
|   | 325 |     |  | 330 |  | 335 |
| Ala Tyr Gln Val His Gly Leu Leu Lys Thr Gly Asp Asn Trp Lys Phe |     |     |  |     |  |     |
|   | 340 |     |  | 345 |  | 350 |
| Ile Gly Pro Asp Gln His Arg Asn Phe Tyr Tyr Ser Lys Phe Phe Asp |     |     |  |     |  |     |
|   | 355 |     |  | 360 |  | 365 |
| Leu Ile Cys Leu Met Glu Gln Ile Asp Val Thr Leu Lys Trp Tyr Glu |     |     |  |     |  |     |
|   | 370 |     |  | 375 |  | 380 |
| Asp Leu Ile Pro Ser Ala Tyr Phe Pro His Ser Gln Thr Met Ile His |     |     |  |     |  |     |
|   | 385 |     |  | 390 |  | 395 |
|   |     |     |  |     |  | 400 |
| Leu Leu Gln Ala Leu Asp Val Ala Asn Arg Leu Glu Val Ile Pro Lys |     |     |  |     |  |     |
|   | 405 |     |  | 410 |  | 415 |
| Ile Trp Lys Asp Ser Lys Glu Tyr Gly His Thr Phe Arg Ser Asp Leu |     |     |  |     |  |     |
|   | 420 |     |  | 425 |  | 430 |
| Arg Glu Glu Ile Leu Met Leu Met Ala Arg Asp Lys His Pro Pro Glu |     |     |  |     |  |     |
|   | 435 |     |  | 440 |  | 445 |
| Leu Gln Val Ala Phe Ala Asp Cys Ala Ala Asp Ile Lys Ser Ala Tyr |     |     |  |     |  |     |
|   | 450 |     |  | 455 |  | 460 |
| Glu Ser Gln Pro Ile Arg Gln Thr Ala Gln Asp Trp Pro Ala Thr Ser |     |     |  |     |  |     |
|   | 465 |     |  | 470 |  | 475 |
|   |     |     |  |     |  | 480 |
| Leu Asn Cys Ile Ala Ile Leu Phe Leu Arg Ala Gly Arg Thr Gln Glu |     |     |  |     |  |     |
|   | 485 |     |  | 490 |  | 495 |
| Ala Trp Lys Met Leu Gly Leu Phe Arg Lys His Asn Lys Ile Pro Arg |     |     |  |     |  |     |
|   | 500 |     |  | 505 |  | 510 |
| Ser Glu Leu Leu Asn Glu Leu Met Asp Ser Ala Lys Val Ser Asn Ser |     |     |  |     |  |     |
|   | 515 |     |  | 520 |  | 525 |
| Pro Ser Gln Ala Ile Glu Val Val Glu Leu Ala Ser Ala Phe Ser Leu |     |     |  |     |  |     |
|   | 530 |     |  | 535 |  | 540 |

Pro Ile Cys Glu Gly Leu Thr Gln Arg Val Met Ser Asp Phe Ala Ile  
545 550 555 560

Asn Gln Glu Gln Lys Glu Ala Leu Ser Asn Leu Thr Ala Leu Thr Ser  
565 570 575

Asp Ser Asp Thr Asp Ser Ser Ser Asp Ser Asp Ser Asp Thr Ser Glu  
580 585 590

Gly Lys

<210> 268

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals stop translation

<400> 268

Met Lys Leu Asn Leu Cys Ile Pro Asn Trp Ala Arg Cys Pro Leu Leu  
1 5 10 15

Leu Leu Phe Pro Gln Leu Leu Pro Phe Gln Gly Glu Asp Asp Asp Pro  
20 25 30

Leu Lys Ala Lys Ala Ala Asn Leu Val Glu Ala Val Pro Trp Gly Ile  
35 40 45

Lys Ala Pro Ser Phe Gln Val Thr Cys Leu Val Arg Val Gln Leu Gln  
50 55 60

Ser Cys Thr Pro Ser Arg Pro Ser Thr Leu Leu Ala Thr Ser Gln Ser  
65 70 75 80

Pro Gly Arg Ile Ser Cys Tyr Ser Pro Leu Ser His Leu Pro Pro Val  
85 90 95

Thr Thr Ser Ile Gln Pro Ser Pro Val Met Val Pro Phe Gln Tyr Gln  
100 105 110

Ala Phe Leu Leu Gln Val Lys Glu Pro Ala Ala Gln Thr Leu Leu Gly  
115 120 125

Gln Gln Xaa  
130

<210> 269

<211> 21

<212> PRT

<213> Homo sapiens



<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals stop translation

<400> 269  
 Met Arg Tyr His Ala Gln Leu Ile Phe Cys Ile Phe Cys Xaa Phe Val  
           1                  5                  10                  15  
 Phe Val Xaa Lys Xaa  
                   20

<210> 270  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 270  
 Met Thr Gly Thr Tyr Ser Gly Gln Phe Val Met Glu Gly Phe Leu Asn  
           1                  5                  10                  15  
 Leu Lys Trp Ser Arg Phe Ala Arg Val Val Leu Thr Arg Ser Ile Ala  
                   20                  25                  30  
 Ile Ile Pro Thr Leu Leu Val Ala Val Phe Gln Asp Val Glu His Leu  
           35                  40                  45

Thr Gly Met Asn Asp Phe Leu Asn Val Leu Gln Ser Leu Gln Leu Pro  
50 55 60

Phe Ala Leu Ile Pro Ile Leu Thr Phe Thr Ser Leu Arg Pro Val Met  
65 70 75 80

Ser Asp Phe Ala Asn Gly Leu Gly Trp Arg Ile Ala Gly Gly Ile Trp  
85 90 95

Ser Tyr His Leu Phe His His Met Tyr Phe Val Val Xaa Tyr Val Arg  
100 105 110

Asp Leu Arg His Val Xaa Leu Tyr Val Xaa Ala Ala Val Val Xaa Arg  
115 120 125

Gly Leu Ser Gly Leu Cys Val Leu Leu Gly Leu Ala Met Phe Asp Cys  
130 135 140

Thr Gly His Val Leu Pro Gly Leu Trp Ala Tyr Gly Lys His Leu  
145 150 155

<210> 271

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (219)

<223> Xaa equals stop translation

<400> 271

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
1 5 10 15

Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
35 40 45

Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly  
50 55 60

Ser Lys Phe Tyr Cys Ser Arg Thr Gln Asn Glu Gly His Pro Lys Trp  
65 70 75 80

Phe Val Leu Gly Val Gly Gln Val Ile Lys Gly Leu Asp Ile Ala Met  
85 90 95

Thr Asp Met Cys Pro Gly Glu Lys Arg Lys Val Val Ile Pro Pro Ser  
100 105 110

Phe Ala Tyr Gly Lys Glu Gly Tyr Ala Glu Gly Lys Ile Pro Pro Asp  
115 120 125

Ala Thr Leu Ile Phe Glu Ile Glu Leu Tyr Ala Val Thr Lys Gly Pro

130

135

140

Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln  
 145 150 155 160

Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln Arg Glu Phe Glu Lys  
 165 170 175

Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp  
 180 185 190

Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe Ile Ser Pro Lys  
 195 200 205

Glu Tyr Asn Val Tyr Gln His Asp Glu Leu Xaa  
 210 215

&lt;210&gt; 272

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 272

Met Trp Val Ile Arg Val Phe Gln Lys Thr Phe Leu Phe Phe Val Leu  
 1 5 10 15

Phe Trp Ser Val His Cys Ile Ser Asp Lys Phe Gly Cys Leu Trp His  
 20 25 30

Val Cys Met Lys Arg Glu Gly Asp Xaa Asn Cys Leu Ser Phe Ser Xaa  
 35 40 45

Leu Xaa  
 50

&lt;210&gt; 273

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

> SITE  
 > (7)  
 > Xaa equals any of the naturally occurring L-amino acids

>  
 > SITE  
 > (20)  
 > Xaa equals any of the naturally occurring L-amino acids

>  
 > SITE  
 > (122)  
 > Xaa equals stop translation

> 273  
 Pro Ser Gln Thr Glu Xaa Phe Ala Ala Cys Gly Gly His Ser Leu  
                   5                  10                  15  
 Leu Val Xaa Leu Pro Leu Gly Leu Pro Phe Cys Pro Arg Ala Ala  
           20                  25                  30  
 Cys Asp Leu Pro Phe Ser Leu Pro Ser Phe Pro Gly Gln Ala Arg  
       35                  40                  45  
 Gly Gly Ala Glu Lys Gln Gly Ala Glu Gly Arg Gly Leu Gln Val  
   50                  55                  60  
 Pro Arg Gly Gln Arg Thr Phe Gln Val Ser Arg Thr Ala Pro Ala  
                   70                  75                  80  
 Pro Arg Ser Arg Gln Pro Arg Pro Pro Ala Ala Leu Pro Ala Leu  
           85                  90                  95  
 Phe Gly Gly Arg Gly Val Ala Lys Gly Arg Phe Leu Cys Phe Trp  
   100                  105                  110  
 Leu Tyr Met Leu Arg Ile Asp Gln Xaa  
   115                  120

0> 274  
 1> 88  
 2> PRT  
 3> Homo sapiens

0>  
 1> SITE  
 2> (53)  
 3> Xaa equals any of the naturally occurring L-amino acids

0>  
 1> SITE  
 2> (88)  
 3> Xaa equals stop translation

00> 274  
 Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro  
                   5                  10                  15

Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp  
                   20                  25                  30

Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala  
                   35                  40                  45

Arg Pro Gly Ala Xaa Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr  
                   50                  55                  60

Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu  
                   65                  70                  75                  80

Gly Ala Asn Gly Ala Gln Pro Xaa  
                                   85

<210> 275

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 275

Met Ile Gln Val Ser Val Pro Leu Leu Thr Ile Met Ile Phe Leu Leu  
           1                  5                  10                  15

Tyr Leu Gln Ile Gly Pro Gly Lys Leu Xaa  
                   20                  25

<210> 276

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals stop translation

<400> 276

Met Leu Leu Asp Pro Phe Ile Leu Leu Phe Cys Leu Phe Ser Thr Ala  
           1                  5                  10                  15

Ala Gln Ser Cys Leu Glu Phe Ile Tyr Ile Gln Phe Xaa  
                   20                  25

<210> 277

<211> 44

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

<400> 277  
 Met Lys Phe Leu Ser Ile Leu Leu Asp Asp Asn Asn Phe Xaa Leu Met  
           1                  5                  10                  15  
 Leu Met Leu Ala Pro Phe Gly Cys Leu Ala Phe Glu Arg Ser Met Lys  
                   20                  25                  30  
 Met Arg Asn Gly Ala Leu Gly Leu Glu Glu Val Xaa  
                   35                  40

<210> 278  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (307)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (363)  
 <223> Xaa equals stop translation.

<400> 278  
 Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
           1                  5                  10                  15  
 Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
                   20                  25                  30  
 Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg  
           35                  40                  45  
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
           50                  55                  60  
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp  
           65                  70                  75                  80  
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr  
                   85                  90                  95  
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
           100                  105                  110

Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp  
 115 120 125  
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu  
 130 135 140  
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe  
 145 150 155 160  
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr  
 165 170 175  
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu  
 180 185 190  
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly  
 195 200 205  
 Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly  
 210 215 220  
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro  
 225 230 235 240  
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro  
 245 250 255  
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly  
 260 265 270  
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala  
 275 280 285  
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp  
 290 295 300  
 Ser Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly  
 305 310 315 320  
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu  
 325 330 335  
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly  
 340 345 350  
 Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu Xaa  
 355 360

&lt;210&gt; 279

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 279

Leu Pro Thr Lys Ile Leu Val Lys Pro Asp Arg Thr Phe Glu Ile Lys  
 1 5 10 15

Ile Gly Gln Pro Thr Val Ser Tyr Phe Leu Lys Ala Ala Ala Gly Ile  
 20 25 30

Glu Lys Gly Ala Arg Gln Thr Gly Lys Glu Val Ala Gly Leu Val Thr  
 35 40 45

Leu Lys His Val Tyr Glu Ile Ala Arg Ile Lys Ala Gln Asp Glu Ala  
 50 55 60

Phe Ala Leu Gln Asp Val Pro Leu Ser Ser Val Val Arg Ser Ile Ile  
 65 70 75 80

Gly Ser Ala Arg Ser Leu Gly Ile Arg Val Val Lys Asp Leu Ser Ser  
 85 90 95

Glu Glu Leu Ala Ala Phe Gln Lys Glu Arg Ala Ile Phe Leu Ala Ala  
 100 105 110

Gln Lys Glu Ala Asp Leu Ala Ala Gln Glu Glu Ala Ala Lys Lys Xaa  
 115 120 125

&lt;210&gt; 280

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 280

Met Leu Leu Gln Ile His Pro Leu Leu Pro Ser Pro Thr Ile Pro His  
 1 5 10 15

Ile Leu Leu Leu Phe Leu Tyr Pro Thr Phe Ser Ile Leu Glu His Ser  
 20 25 30

Cys Ser Tyr Cys Ile Glu Tyr Leu Trp Val Cys Leu Leu Phe Cys Leu  
 35 40 45

Ser Leu Trp Phe Leu Xaa  
 50

&lt;210&gt; 281

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;400&gt; 281

Met Cys Leu Trp Cys Cys Gly Asp Val Cys Ser Gly Leu Ser Ser Leu  
 1 5 10 15

Leu Ser Leu Cys Val Cys Cys Val Val Leu Ala Val Cys  
 20 25

&lt;210&gt; 282

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 282

Glu Gly Leu Arg Leu Leu Leu Ser Leu Pro Ala Ala Leu Pro Arg Ser  
 1 5 10 15

Cys Cys His Pro Arg Trp Leu Pro Val Xaa  
 20 25

&lt;210&gt; 283

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 283

Met Phe His Gly Ile Pro Ala Thr Pro Gly Ile Gly Ala Pro Gly Asn  
 1 5 10 15

Lys Pro Glu Leu Tyr Glu Glu Val Lys Leu Tyr Lys Asn Ala Arg Glu  
 20 25 30

Arg Glu Lys Tyr Asp Asn Met Ala Glu Leu Phe Ala Val Val Lys Thr  
 35 40 45

Met Gln Ala Leu Glu Lys Ala Tyr Ile Lys Asp Cys Val Ser Pro Ser  
 50 55 60

Glu Tyr Thr Ala Ala Cys Ser Arg Leu Leu Val Gln Tyr Lys Ala Ala  
 65 70 75 80

Phe Arg Gln Val Gln Gly Ser Glu Ile Ser Ser Ile Asp Glu Phe Cys  
 85 90 95

Arg Lys Phe Arg Leu Asp Cys Pro Leu Ala Met Glu Arg Ile Lys Glu  
 100 105 110

Asp Arg Pro Ile Thr Ile Lys Asp Asp Lys Gly Asn Leu Asn Arg Cys  
 115 120 125

Ile Ala Asp Val Val Ser Leu Phe Ile Thr Val Met Asp Lys Leu Arg

130

135

140

Leu Glu Ile Arg Ala Met Asp Glu Ile Gln Pro Asp Leu Arg Glu Leu  
 145 150 155 160

Met Glu Thr Met His Arg Met Ser His Leu Pro Pro Asp Phe Glu Gly  
 165 170 175

Arg Gln Thr Val Ser Gln Trp Leu Gln Thr Leu Ser Gly Met Ser Ala  
 180 185 190

Ser Asp Glu Leu Asp Asp Ser Gln Val Arg Gln Met Leu Phe Asp Leu  
 195 200 205

Glu Ser Ala Tyr Asn Ala Phe Asn Arg Phe Leu His Ala  
 210 215 220

&lt;210&gt; 284

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

Met Gly Asn Ser Gln Val Pro Gln Ser Ser Asp Phe Ser Ser Ile Leu  
 1 5 10 15

Leu Thr Thr Ser Leu Gly Thr Tyr Ser Leu Leu Leu Gly Thr Ala Gly  
 20 25 30

Ala Arg Thr Gly Ser Pro Met Ser  
 35 40

&lt;210&gt; 285

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 285

Met Gln Ala Pro Phe Xaa His Phe Ser Phe Arg Met Phe Ser Asn Leu  
 1 5 10 15

Tyr Cys Phe Ser Asp Phe Gln Pro Asn Ile Ser Pro Cys Pro Leu Cys  
                   20                                  25                                  30

His Cys Ile Leu Pro Xaa His His His Val Phe Leu Leu Leu Ala Val  
                   35                                  40                                  45

Xaa

<210> 286

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals stop translation

<400> 286

Met Lys Leu Val Thr Met Phe Asp Lys Leu Ser Arg Asn Arg Val Ile  
       1                                  5                                  10                                  15

Gln Pro Met Gly Met Ser Pro Arg Gly His Leu Thr Ser Leu Gln Asp  
                   20                                  25                                  30

Ala Met Cys Glu Thr Met Glu Gln Gln Leu Ser Ser Asp Pro Asp Ser  
                   35                                  40                                  45

Asp Pro Asp Xaa  
                   50

<210> 287

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals stop translation

<400> 287

Met Ala Val Gly Glu Ala Val Phe Val Pro Leu Gln His Pro Pro Leu  
       1                                  5                                  10                                  15

Leu His Gly Ser Pro Ile Pro Lys Leu Leu Pro Gly Pro Leu Leu Xaa  
                   20                                  25                                  30

<210> 288

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals stop translation

<400> 288

Met Asn Gly Cys His Arg Arg Lys Arg Leu His Leu Cys Lys Thr Ile  
1 5 10 15

Tyr Leu Leu Trp Phe Val Phe Ser Phe Leu Leu Ser Asn Glu Val Val  
20 25 30

Ser Ser His Trp His Ile Leu Arg Ala Val Gln Ile Ile Cys Thr Leu  
35 40 45

Phe His Arg Xaa Ile Ser Ala Phe Xaa  
50 55

<210> 289

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals stop translation

<400> 289

Met Gly Trp Val Ser Ser Pro His Val Lys Arg Arg Glu Cys Val Leu  
1 5 10 15

Lys Lys Pro Phe Phe Xaa  
20

<210> 290

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 290

Met Phe Asn Phe Phe Lys Asn Pro Leu Leu Thr Cys Leu Phe Ile Ser  
1 5 10 15

Cys Tyr Leu Tyr Leu Ser Leu Leu Val Asn Lys Val Leu Phe Ala Glu  
                   20                                  25                                  30

Glu Gly Leu Cys Cys Thr Tyr Cys Thr Thr Ser Asn Thr Gly Glu Gly  
                   35                                  40                                  45

Gly Val Xaa  
                   50

<210> 291

<211> 98

<212> PRT

<213> Homo sapiens

<400> 291

Met Val Tyr Ile Tyr His Ile Phe Phe Ile His Ser Leu Leu Asp Gly  
           1                                  5                                  10                                  15

Gln Leu Gly Trp Phe His Ile Phe Ala Ile Val Ser Cys Ala Ala Pro  
                   20                                  25                                  30

Asp Ile Ile Phe Asn Ser Phe Ala Phe Ser Thr Tyr Ile Ser Lys Ser  
           35                                  40                                  45

Cys Ser Phe Tyr Leu Gln Asn Val Ser Cys Ile His Ser Ser Leu Ser  
           50                                  55                                  60

Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met Glu Glu Cys  
           65                                  70                                  75                                  80

Asn Asn Trp Leu Thr Gly Leu Phe Leu His Phe Lys Ile Lys Arg Cys  
                   85                                  90                                  95

Asp Arg

<210> 292

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals stop translation

<400> 292

Met Leu Cys Thr Ile Leu Thr Val Val Ile Ile Ile Ala Ala Gln Thr  
           1                                  5                                  10                                  15

Thr Arg Thr Thr Gly Ile Pro Lys Asn Ala Pro Gly Pro Ala Pro Leu

20

25

30

Cys Ala Pro Arg Ser Pro Arg Leu Phe Leu Gln Xaa Tyr Arg Gly Pro  
 35 40 45

Asn Gly Arg Pro Ala His Pro Phe Leu Gly Pro Ser Asp Leu Asp Thr  
 50 55 60

Ser Xaa  
 65

<210> 293  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (187)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (229)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (232)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (235)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (236)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (237)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (257)  
 <223> Xaa equals stop translation

<400> 293

Met Leu Gly Ala Lys Pro His Trp Leu Pro Gly Pro Leu His Ser Pro  
 1 5 10 15

Gly Leu Pro Leu Val Leu Val Leu Leu Ala Leu Gly Ala Gly Trp Ala  
 20 25 30

Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val  
 35 40 45

Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu  
 50 55 60

Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Xaa Ala Val Arg Ser His  
 65 70 75 80

His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile  
 85 90 95

Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala  
 100 105 110

Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe  
 115 120 125

His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met  
 130 135 140

Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val  
 145 150 155 160

Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly  
 165 170 175

Asp Arg Val Ser Leu Arg Leu Arg Arg Gly Xaa Ser Thr Gly Trp Leu  
 180 185 190

Glu Ile Leu Lys Phe Leu Trp Leu Pro His Leu Pro Ser Leu Lys Asp  
 195 200 205

Pro Ser Leu Ser Ser Thr Arg Ile Gln Pro Leu Thr Thr Phe Phe Cys  
 210 215 220

Pro Leu Leu Pro Xaa Lys Gln Xaa Lys Gln Xaa Xaa Xaa Ser Leu Trp  
 225 230 235 240

Leu Leu Ser His Leu Phe Ala Trp Glu Pro Val Pro Asn Thr Gln Val  
 245 250 255

Xaa

&lt;210&gt; 294

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals stop translation

<400> 294  
 Met Ala Pro Arg Ala Leu Pro Gly Ser Ala Val Leu Ala Ala Ala Val  
           1                  5                  10                  15  
 Phe Val Gly Gly Ala Val Ser Ser Pro Leu Val Ala Pro Asp Asn Gly  
                   20                  25                  30  
 Ser Ser Arg Thr Leu His Ser Arg Thr Glu Thr Thr Pro Ser Pro Ser  
           35                  40                  45  
 Asn Asp Thr Gly Asn Gly His Pro Glu Tyr Ile Ala Tyr Ala Leu Val  
           50                  55                  60  
 Pro Val Phe Phe Ile Met Gly Leu Phe Gly Val Leu Ile Xaa Pro Xaa  
           65                  70                  75                  80  
 Xaa Xaa Lys Lys Lys Gly Tyr Arg Cys Thr Thr Glu Ala Glu Gln Asp  
                   85                  90                  95  
 Ile Glu Glu Glu Lys Gly Xaa  
           100

<210> 295  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals stop translation

<400> 295



Met Pro Val Thr Leu Ser Ser Leu Gly Phe Trp Val Leu Leu Ser Leu  
 1 5 10 15

Leu Phe Pro Trp Arg Thr Asp Gln Gly Cys Gly Pro Ala Thr Cys Tyr  
 20 25 30

Xaa

<210> 296

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals stop translation

<400> 296

Met Val Leu Gly Leu Leu Leu Leu Xaa Phe Phe Ser Phe Ser Ser  
 1 5 10 15

Ser Pro Ser Pro Ser Ser Ser Leu Leu Leu Leu Ser Ser Phe Phe Phe  
 20 25 30

Gln Ser Leu Ala Leu Ser Pro Arg Leu Glu Xaa  
 35 40

<210> 297

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals stop translation

<400> 297

Glu Trp Leu Val Phe Thr Phe Leu Leu Val Phe Gly Ser Pro Leu Gly  
 1 5 10 15

Lys Gly Pro Leu Xaa  
 20

<210> 298

<211> 70

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals stop translation

<400> 298

Met Ile Arg Ala Leu Ser Leu Phe Leu Leu Ile Phe Asp Ala Ala Leu  
 1 5 10 15

Phe Ser Leu Ser Val Phe Val Phe Ile Gly His Leu Leu Pro Met Pro  
 20 25 30

Lys Gly Thr Gly Leu His Ser Cys Ala Lys His Leu Ile Lys Ser Leu  
 35 40 45

Lys Glu Asn Val Leu Pro Leu Met Asn Tyr Pro Asp Cys Lys Leu Lys  
 50 55 60

Ile Asn Ile Ser Pro Xaa  
 65 70

<210> 299  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals stop translation

<400> 299

Met Gly Lys Leu Ile Arg Leu Ser Val Met Val Met Ser Val Arg Arg  
 1 5 10 15

Leu Phe Ser Ile Tyr Trp Val Leu Ser Thr Val Pro Asp Ala Val Gly  
 20 25 30

Ser Arg Gly Gly Met Glu Glu Glu Cys Ser Arg Gly Leu Cys Cys Val  
 35 40 45

Ala Gly Gln His Lys Gln Ala Lys Gly Lys Arg Gln Ala Trp Asn Lys  
 50 55 60

Gly Gly Glu Tyr Gln Cys Val Thr Tyr Cys Xaa  
 65 70 75

<210> 300  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)

<223> Xaa equals stop translation

<400> 300

Met Pro Ala Leu Val Thr Leu Leu Leu Leu Phe Pro Leu Leu Pro Leu  
1 5 10 15

Met Glu Ala Ser Cys His Val Met Arg Cys Pro Met Glu Arg Pro Thr  
20 25 30

Xaa

<210> 301

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals stop translation

<400> 301

Glu Ala Pro Trp Gly Leu Leu Lys Leu Leu Leu Leu Ala Val Phe  
1 5 10 15

Xaa

<210> 302

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals stop translation

<400> 302

Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys Lys Glu Glu Pro Lys  
1 5 10 15

Xaa

<210> 303

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 303

Met Gln Ser Pro Lys Phe Leu Ser Xaa Thr Pro Tyr Leu Phe Gln Thr  
 1 5 10 15

Pro Phe His Leu Ile Ser Leu Pro Cys His Phe Phe Ile Phe Lys Met  
 20 25 30

Pro Ile Val Tyr Val Leu Phe Lys Phe Phe Glu Arg Leu Lys Gln Pro  
 35 40 45

Leu Ser Lys Ile Pro Phe Cys Leu Leu Ala Phe Lys Phe Ser Ile Arg  
 50 55 60

Ala Phe Phe Leu Pro Leu Trp His Ala Ala Leu Trp Leu Ser Phe Val  
 65 70 75 80

Phe Phe Ala Gly Phe Leu His Asp Val Val Val Val Ser Cys Leu Thr  
 85 90 95

Leu Cys Gly Val Val Ser Cys Ser Phe Ser Ser Pro Arg Cys Leu  
 100 105 110

&lt;210&gt; 304

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 304

Met Ala Leu Leu Ile Ser Ser Leu Ile Trp Ser Xaa  
 1 5 10

&lt;210&gt; 305

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 305

Met Gln Met Phe Thr Val Ser Leu Leu Leu Ser Leu Leu Leu Arg Ser  
 1 5 10 15

Thr Asp Gln Asn His Leu Gln Leu Leu Val Gly Arg Glu Asp His Tyr  
 20 25 30

Gly Gly Xaa  
 35

<210> 306  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals stop translation

<400> 306  
 Met Ser Glu Ser Ala Cys Ile Leu Asn Asn Gln Lys Glu Leu Xaa  
           1                  5                  10                  15

<210> 307  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

<400> 307  
 Met Asp Leu Asp Arg Val Lys Ala Glu Ala Thr Glu Asp Ile Thr Ser  
           1                  5                  10                  15

Gly Val Leu Cys Leu Leu Phe Leu Arg Leu Pro Pro Asn Ser Cys Ile  
                   20                  25                  30

Phe Pro Ser Ala Val Leu Gly Ser Thr Arg Thr Xaa  
           35                  40

<210> 308  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<400> 308  
 Met Met Val Val Gly Thr Gly Thr Ser Leu Ala Leu Ser Ser Leu Leu  
           1                  5                  10                  15

Ser Leu Leu Leu Phe Ala Gly Met Gln Met Tyr Ser Arg Gln Leu Ala  
                   20                  25                  30

Ser Thr Glu Trp Leu Thr Ile Gln Gly Gly Leu Leu Gly Ser Gly Leu  
           35                  40                  45

Phe Val Phe Ser Leu Thr Ala Phe Asn Asn Leu Glu Asn Leu Val Phe  
           50                  55                  60

Gly Lys Gly Phe Gln Ala Lys Ile Phe Pro Glu Ile Leu Leu Cys Leu  
           65                  70                  75                  80

Leu Leu Ala Leu Phe Ala Ser Gly Leu Ile His Arg Val Cys Val Thr  
                     85                    90                    95  
 Thr Cys Phe Ile Phe Ser Met Val Gly Leu Tyr Tyr Ile Asn Lys Ile  
                     100                    105                    110  
 Ser Ser Thr Leu Tyr Gln Ala Ala Ala Pro Val Leu Thr Pro Ala Lys  
                     115                    120                    125  
 Val Thr Gly Lys Ser Lys Lys Arg Asn  
                     130                    135

<210> 309  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals stop translation

<400> 309  
 Met Phe Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu  
           1                    5                    10                    15  
 Glu Tyr Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu  
                     20                    25                    30

Arg Xaa

<210> 310  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (137)  
 <223> Xaa equals stop translation

<400> 310  
 Met Arg Thr Pro Gly Pro Leu Pro Val Leu Leu Leu Leu Ala Gly  
           1                    5                    10                    15  
 Ala Pro Ala Ala Arg Pro Thr Pro Pro Thr Cys Tyr Ser Arg Met Arg  
                     20                    25                    30  
 Ala Leu Ser Gln Glu Ile Thr Arg Asp Phe Asn Leu Leu Gln Val Ser  
                     35                    40                    45  
 Glu Pro Ser Glu Pro Cys Val Arg Tyr Leu Pro Arg Leu Tyr Leu Asp  
           50                    55                    60

Ile His Asn Tyr Cys Val Leu Asp Lys Leu Arg Asp Phe Val Ala Ser  
65 70 75 80

Pro Pro Cys Trp Lys Val Ala Gln Val Asp Ser Leu Lys Asp Lys Ala  
85 90 95

Arg Lys Leu Tyr Thr Ile Met Asn Ser Phe Cys Arg Arg Asp Leu Val  
100 105 110

Phe Leu Leu Asp Asp Cys Asn Ala Leu Glu Tyr Pro Ile Pro Val Thr  
115 120 125

Thr Val Leu Pro Asp Arg Gln Arg Xaa  
130 135

<210> 311

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals stop translation

<400> 311

Met Trp Leu Leu Lys Pro Ser Ala His Ser Pro Val His Xaa Leu Val  
1 5 10 15

Leu Leu Phe Pro Arg Gly Trp Ser Gln Pro Gly Thr His Lys Arg Gln  
20 25 30

Ile Leu Val Asn Xaa Ala Ser Leu Pro Gly Gly Cys Leu Leu Pro Trp  
35 40 45

Ile Trp Ser Gly Ala Ala Leu Arg Phe Xaa  
50 55

<210> 312

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals stop translation

<400> 312

Met Ser Arg Arg Ala Glu Ala Ser Ile Phe Val Leu Pro Lys Thr Leu  
1 5 10 15

Leu Phe Val Leu Phe Pro Ala Phe Pro Ser Pro Ala Val Gly Cys Pro  
20 25 30

Val Pro Xaa  
35

<210> 313

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 313

Met Ala Leu Glu Met Val Trp Gly Ser Val Tyr His Cys Ser Cys Tyr  
1 5 10 15

Ile Thr Pro Trp Ser Lys Ile Gln Ser Phe Ser Leu Ser Leu Phe Gln  
20 25 30

Phe Ile Leu Gln Glu Val Asn Ile Thr Leu Pro Glu Asn Ser Val Trp  
35 40 45

Tyr Glu Arg Tyr Lys Phe Asp Ile Pro Val Phe His Leu Asn Gly Gln  
50 55 60

Phe Leu Met Met His Arg Val Asn Thr Ser Lys Leu Glu Lys Gln Leu  
65 70 75 80

Leu Lys Leu Glu Gln Gln Ser Thr Gly Xaa  
85 90

<210> 314

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals stop translation

<400> 314

Met Phe Val Leu Phe Ser Leu Pro Lys Tyr Ala Gly Leu Arg Leu Pro  
1 5 10 15

Ile Pro Gly Leu Ser Ala Leu Leu Val Phe Leu Leu Ser Leu Phe Ser



|   |    |    |
|---|----|----|
| 20  | 25 | 30 |
| Arg Arg Ala Gln Val Glu Leu Thr Thr Gly Arg Glu Thr Leu Pro Lys |    |    |
| 35  | 40 | 45 |
| Asn Leu Gln Gly Tyr Phe Pro Glu Phe Gly Phe Gln Val Gln Asn Phe |    |    |
| 50  | 55 | 60 |
| Leu Ser Cys Lys Ile Tyr Ala Ala Ser Gln Lys Gln Pro Leu Pro Pro |    |    |
| 65  | 70 | 75 |
| 80  |    |    |
| Leu Tyr Gln Leu Arg Phe Tyr Leu Lys His Met Gly Leu Pro Xaa     |    |    |
| 85  | 90 | 95 |

<210> 315  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

|   |
|---|
| <400> 315   |
| Met Ser Ser His Trp Thr Leu Lys Ile Leu Leu Val Pro Leu Phe Tyr |
| 1 5 10 15   |
| Leu Ser Leu Glu Phe Pro Ser Gly Phe Val Leu Cys Leu Ala Asn Asp |
| 20 25 30  |

|   |
|---|
| Leu Gly Tyr His Phe Ser Ser Arg Val Arg Ser Xaa |
| 35 40   |

<210> 316  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals stop translation

|   |
|---|
| <400> 316   |
| Met Leu Val Val Asn Ile Asn Leu Val Phe Leu Leu Phe Phe Ile Phe |
| 1 5 10 15   |
| Leu Cys Tyr Leu Asp Ala Cys Ile Asn Val Phe Cys Phe Tyr Xaa     |
| 20 25 30  |

<210> 317  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 317

Met Pro Val Leu Pro Gly Arg Thr Thr Ala Leu Leu Ser Leu Thr Leu  
 1 5 10 15

Ala Phe Ala Val Pro Cys Ser Gly Val Glu Ala Gly Pro Cys Val Pro  
 20 25 30

Arg Ser His Gly Cys Ser Ser Trp Glu Ala Ser Val Cys Val Thr Ser  
 35 40 45

Ser Thr Pro Gly Gly Ser Trp Arg Ala Arg Ala Leu Phe Pro Ser Ala  
 50 55 60

Ala Trp His Arg Xaa Ala Ala Trp Asp Ser Pro Trp Thr Gln Thr Gly  
 65 70 75 80

Asp Phe Ala Arg Gly Ala Met Gly Gly Ala Gly Ala Leu Pro Gly Gly  
 85 90 95

Cys Val Cys Ile Ser Gly Arg Pro Arg Ala Gln Lys Leu Pro Ala Leu  
 100 105 110

Xaa

&lt;210&gt; 318

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 318

Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro  
 1 5 10 15

Asn Gln Ala Leu Gly Gly Val Pro Gly Ser Gln Pro Leu Leu Pro Ser  
 20 25 30

Gly Met Asp Pro Thr Arg Gln Gln Gly His Pro Asn Met Gly Gly Pro  
 35 40 45

Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln  
 50 55 60

Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro  
 65 70 75 80

Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro  
85 90 95

Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly  
100 105 110

Asn Tyr Val Gly Pro Pro Gly Gly Gly Gly Pro Pro Gly Thr Pro Ile  
115 120 125

Met Pro Ser Pro Ala Asp Ser Thr Asn Ser Gly Asp Asn Met Tyr Thr  
130 135 140

Leu Met Asn Ala Val Pro Pro Gly Pro Asn Arg Pro Asn Phe Pro Met  
145 150 155 160

Gly Pro Gly Ser Asp Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser  
165 170 175

His His Met Asn Gly Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser  
180 185 190

Lys Asn Ser Pro Asn Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro  
195 200 205

Arg Asp Asp Gly Glu Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser  
210 215 220

Glu Ser Tyr Ser Pro Ser Met Thr Met Ser Val  
225 230 235

<210> 319  
<211> 35  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals stop translation

<400> 319  
Met Glu Asn Phe Phe Phe Ser Phe Tyr Leu Phe Leu Ile Thr Leu Ile  
1 5 10 15

Pro Asn Gly Arg Thr Leu Ser Thr Thr Ala Asp His Cys Lys Ile Pro  
20 25 30

Cys Ile Xaa  
35

<210> 320  
<211> 35  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 320

Met Glu Leu Trp Glu Leu Ala Leu Cys Leu Leu Val Ala Leu Ser Ala  
       1                  5                  10                  15

His Met Phe Thr Val Gln Leu Leu Ala Asp Leu Gly Phe Leu Phe Gly  
                   20                  25                  30

Gly Phe Xaa  
           35

<210> 321

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals stop translation

<400> 321

Met Gly Ala Gly Ile Leu Ala Leu Leu Leu Pro Leu Glu Ser Val Leu  
       1                  5                  10                  15

Thr Cys Ser Trp Ile Ser Val Ser Thr Ser Glu Arg Gln Leu Trp Gln  
                   20                  25                  30

Ser Ser Gln Lys Ala Thr Ile Leu Ser Leu Lys Leu Asp Ser Cys Phe  
           35                  40                  45

Cys Gly His Ser Gly Leu Lys Gly Lys Asn Glu Asp Thr Asp Ser Ser  
       50                  55                  60

Val Pro Ile Ile Pro Ser Lys Thr His Thr His Leu Gly Lys His Leu  
       65                  70                  75                  80

Ile Xaa

<210> 322

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 322

Met Phe Tyr Phe Val Leu Phe Ile Tyr Ser Ser Ser Glu Thr Trp Ser  
1 5 10 15

Gly Ser Val Ala Gln Asp Gly Val His Gly Val Ile Ile Gly His Cys  
20 25 30

Ser Val Glu Leu Pro Gly Ser Gly Asp Pro Pro Ala Ser Ala Xaa Leu  
35 40 45

Val Ala Gly Thr Ile Gly Thr Cys Pro Thr Met Pro Gly Phe Val Tyr  
50 55 60

Phe Leu Asn Asp Val Xaa Asn Xaa  
65 70

<210> 323

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals stop translation

<400> 323

Met Asp Ser Thr Leu Arg Gln Gly Arg Xaa Leu Leu Thr Leu Val Pro  
1 5 10 15

Ala Ser Leu Phe Ser Leu Thr Leu Gly Gly Pro Gly Pro Trp Lys Asp  
20 25 30

Pro Xaa

<210> 324

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 324

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gln | Val | Val | Gly | Ser | Trp | Pro | Gly | Arg | Val | Gly | Val | Val | Gly | Leu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Phe | Ser | Leu | Val | Ile | Pro | Pro | Pro | Ala | Ile | Cys | Ile | Ala | Gly | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Gly | Leu | Gly | Gly | Gly | Glu | Arg | Gln | Gln | Lys | Gly | Leu | Gly | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Gly | Gly | Leu | Arg | Asn | Cys | Pro | Gly | Arg | Val | Gly | Met | Ala | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Gly | Ala | Leu | Leu | Cys | Leu | Thr | Ser | Arg | Asp | Gly | Ser | Leu | Leu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Cys | Val | Arg | Pro | His | His | Val | Ile | Lys | Pro | Lys | Gly | Thr | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Lys | Lys | Lys | Lys | Lys | Lys | Lys | Lys | Lys | Lys | Lys | Lys | Lys | Xaa | Xaa |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     |     | 110 |     |

|     |     |     |
|-----|-----|-----|
| Gly | Gly | Xaa |
|     |     | 115 |

<210> 325

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 325

Met Asp Leu Pro Gln Phe Ile Tyr Leu Phe Ile Phe Cys Phe Cys Cys  
 1 5 10 15

Leu Ala Ile Val Asn Asn Ala Ser Ile Asn Ile His Ile Gln Val Ser  
 20 25 30

Met Trp Leu Tyr Val Phe Ile Ser Leu Gly Tyr Leu His Gly Ser Arg  
 35 40 45

Ile Leu Gly His Asn Ile Ile Leu Cys Leu Thr Ser Gln Arg Ile Ala  
 50 55 60

Lys Arg Phe Phe Ile Val Ala Ala Ser Phe Thr Phe Pro Pro Ala Met  
 65 70 75 80

Tyr Lys Asp Phe Tyr Phe Ser Ile Ser Leu His Leu Pro Thr Leu Leu  
 85 90 95

Phe Xaa Xaa Xaa Phe Val Phe Ser Leu Leu Pro Pro  
 100 105

&lt;210&gt; 326

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 326

Met Cys Ser Pro Ser Leu Ser Ser Ser Pro Pro Pro Leu Leu Gln Val  
 1 5 10 15

Phe Phe Phe Phe Phe Phe Ser Pro His Trp Ala Ala Lys Val Val Pro  
 20 25 30

Gln Trp Lys Xaa Arg His Pro Gln Val Ser Ser Gln Leu Leu Leu Cys  
 35 40 45

Phe Leu Arg Val Asn Cys Gln Phe Leu Phe Leu Gln Glu Ile Leu Phe  
 50 55 60

Xaa

65

&lt;210&gt; 327

&lt;211&gt; 49

&lt;212&gt; PRT

<213> Homo sapiens

<400> 327

Met Cys Leu Ser Arg Trp Lys Ile Phe Tyr Thr Leu Leu Ile Leu Phe  
1 5 10 15

Ala Phe Phe Ser Ile Thr Ser Glu Asn Glu Thr Phe Tyr Met Ile Ile  
20 25 30

Ile His His Asn Pro Thr Gln Ile Thr Ala Ser Cys Ser Phe Thr Phe  
35 40 45

Leu

<210> 328

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 328

Met Glu Arg Pro Asp Trp Glu Thr Ala Ile Gln Lys Pro Leu Cys Ser  
1 5 10 15

Leu Pro Ala Gly Ser Gly Asn Ala Leu Ala Ala Ser Leu Asn His Tyr  
20 25 30

Ala Gly Tyr Xaa Gln Val Thr Asn Glu Asp Leu Leu Thr Asn Cys Thr  
35 40 45

Leu Leu Leu Cys Arg Arg Leu Ser Pro Met Asn Leu Leu Ser Leu  
50 55 60

His Thr Ala Ser Gly Leu Arg Leu Phe Ser Val Leu Ser Leu Ala Trp  
65 70 75 80

Gly Phe Ile Ala Asp Val Asp Leu Glu Ser Glu Lys Tyr Arg Arg Leu  
85 90 95

Gly Glu Met Arg Phe Thr Leu Gly Thr Phe Leu Arg Leu Ala Ala Leu  
100 105 110

Arg Thr Tyr Arg Gly Arg Leu Ala Tyr Leu Pro Val Gly Arg Val Gly  
115 120 125

Ser Lys Thr Pro Ala Ser Pro Val Val Val Gln Gln Gly Pro Val Asp  
130 135 140

Ala His Leu Val Pro Leu Glu Glu Pro Val Pro Ser His Trp Thr Val  
145 150 155 160

Val Pro Asp Glu Asp Phe Val Leu Val Leu Ala Leu Leu His Ser His



|   |     |     |
|---|-----|-----|
| 165   | 170 | 175 |
| Leu Gly Ser Glu Met Phe Ala Ala Pro Met Gly Arg Cys Ala Ala Gly |     |     |
| 180   | 185 | 190 |
| Val Met His Leu Phe Tyr Val Arg Ala Gly Val Ser Arg Ala Met Leu |     |     |
| 195   | 200 | 205 |
| Leu Arg Leu Phe Leu Ala Met Glu Lys Gly Arg His Met Glu Tyr Glu |     |     |
| 210   | 215 | 220 |
| Cys Pro Tyr Leu Val Tyr Val Pro Val Val Ala Phe Arg Leu Glu Pro |     |     |
| 225   | 230 | 235 |
| Lys Asp Gly Lys Gly Val Phe Ala Val Asp Gly Glu Leu Met Val Ser |     |     |
| 245   | 250 | 255 |
| Glu Ala Val Gln Gly Gln Val His Pro Asn Tyr Phe Trp Met Val Ser |     |     |
| 260   | 265 | 270 |
| Gly Cys Val Glu Pro Pro Pro Ser Trp Lys Pro Gln Gln Met Pro Pro |     |     |
| 275   | 280 | 285 |
| Pro Glu Glu Pro Leu   |     |     |
| 290   |     |     |

<210> 329  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals stop translation

|  |
|--|
| <400> 329  |
| Met Pro Leu Glu Gly Phe Cys Leu Val Leu Asp Ile Gly Phe Leu Leu          |
| 1                      5                      10                      15 |
| Val Met Leu Ile Ser Leu Ala Ser Glu Cys Phe Thr Thr Cys Leu Asp          |
| 20                      25                      30                       |
| Ser Phe Ser Thr Thr Glu Pro Gly Cys Lys Phe Tyr Lys Leu Leu His          |
| 35                      40                      45                       |
| Ser Val Ser Leu Leu Asn Ile Asn Phe Asn Val Lys Ser Leu Leu Cys          |
| 50                      55                      60                       |
| Ser His Ile Xaa  |
| 65   |

<210> 330  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals stop translation

<400> 330

Met Pro Leu Gln Leu Ser Gly Gln Tyr Trp Ile Ser Leu Leu Val Phe  
1 5 10 15

Leu Ser Leu Gln Pro Phe Pro Gln Ala Ala Ile Pro Cys Ala Leu Thr  
20 25 30

Asp Val Gly Gly Ser Cys Val Ile Cys His Ile Leu Leu Asn Cys Leu  
35 40 45

Cys Ile Leu Phe Thr Leu Thr Ala Pro Ser Leu Ser His Val Leu Leu  
50 55 60

Ile Lys Met Ser Leu Ser Val Cys Tyr Glu Pro Gly Ala Asp Leu Ser  
65 70 75 80

Asp Arg Ala Ala Thr Gly Asn Lys Lys Leu Thr Arg Ser Thr Cys Leu  
85 90 95

Leu Met His Ser Asn Lys Leu Cys Xaa  
100 105

<210> 331

<211> 58

<212> PRT

<213> Homo sapiens

<400> 331

Met Trp Gly Cys Ser Gly Leu Gly His Arg Thr Val Ser Phe Leu Leu  
1 5 10 15

Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Gly Leu Phe Gly Leu Ile  
20 25 30

Pro Ile Ser Arg Pro Cys Lys Val Glu Ala Pro Arg Pro Leu Ser Pro  
35 40 45

Thr Thr Leu Met Cys Gln Ser Pro Leu Leu  
50 55

<210> 332

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals stop translation

<400> 332  
 Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly  
           1                  5                  10                  15  
 Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln  
                   20                  25                  30  
 His Arg Trp Leu Leu Leu Xaa  
                   35

<210> 333  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals stop translation

<400> 333  
 Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu  
           1                  5                  10                  15  
 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His  
                   20                  25                  30  
 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val  
                   35                  40                  45  
 Ser Ala Ser Thr Trp His Leu Gly Glu Xaa Leu Leu Leu Leu Val Pro  
           50                  55                  60  
 Ile Ala Pro Ser Val Trp Ser Xaa  
           65                  70

<210> 334  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals stop translation

&lt;400&gt; 334

Met Glu Gln Gly Gly Gly Pro Arg Leu Leu Leu Ile Pro Gly Leu  
 1 5 10 15

Leu His Asn Thr Tyr Leu Ala Arg Pro Gly Asp Phe Pro Ala Gln Gly  
 20 25 30

Thr Thr Glu Asn Thr Glu Cys Gln Gly Ser Pro Ser Pro Ile Ser His  
 35 40 45

Leu Gly Lys Val Arg Ser Leu Asp Ser Asn Thr Gln Ile Xaa  
 50 55 60

&lt;210&gt; 335

&lt;211&gt; 286

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (286)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 335

Met Pro Leu Leu Phe Phe Ser Val Ser Thr Leu Phe Ser Gly Ser Val  
 1 5 10 15

Thr Leu Gln Gln Arg Gly Met Phe Leu Pro Trp Thr Gly Thr Gly Glu  
 20 25 30

Gln Val Leu Ala Leu Leu Trp Pro Arg Phe Glu Leu Ile Leu Glu Met  
 35 40 45

Asn Val Gln Ser Val Arg Ser Thr Asp Pro Gln Arg Leu Gly Gly Leu  
 50 55 60

Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu Phe Ser Ser  
 65 70 75 80

Ala Leu Val Ser Ile Asn Gln Thr Ile Pro Asn Glu Arg Thr Met Gln  
 85 90 95

Leu Leu Gly Gln Leu Gln Val Glu Val Glu Asn Phe Val Leu Arg Val  
 100 105 110

Ala Ala Glu Phe Ser Ser Arg Lys Glu Gln Leu Val Phe Leu Ile Asn  
 115 120 125

Asn Tyr Asp Met Met Leu Gly Val Leu Met Glu Arg Ala Ala Asp Asp  
 130 135 140

Ser Lys Glu Val Glu Ser Phe Gln Gln Leu Leu Asn Ala Arg Thr Gln  
 145 150 155 160

Glu Phe Ile Glu Glu Leu Leu Ser Pro Pro Phe Gly Gly Leu Val Ala  
 165 170 175

Phe Val Lys Glu Ala Glu Ala Leu Ile Glu Arg Gly Gln Ala Glu Arg  
180 185 190

Leu Arg Gly Glu Glu Ala Arg Val Thr Gln Leu Ile Arg Gly Phe Gly  
195 200 205

Ser Ser Trp Lys Ser Ser Val Glu Ser Leu Ser Gln Asp Val Met Arg  
210 215 220

Ser Phe Thr Asn Phe Arg Asn Gly Thr Ser Ile Ile Gln Gly Ala Leu  
225 230 235 240

Thr Gln Leu Ile Gln Leu Tyr His Arg Phe His Arg Val Leu Ser Gln  
245 250 255

Pro Gln Leu Arg Ala Leu Pro Ala Arg Ala Glu Leu Ile Asn Ile His  
260 265 270

His Leu Met Val Glu Leu Lys Lys His Lys Pro Asn Phe Xaa  
275 280 285

<210> 336

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals stop translation

<400> 336

Met Phe Arg Ala Leu Arg Asp Leu Leu Thr His Tyr Pro Gln Gln Ile  
1 5 10 15

Leu Leu Gln Val Leu Val Val Met Tyr Gln Val Leu Gln Val Trp Glu  
20 25 30

Leu Pro Trp Pro Glu Leu Ile His Leu Gln Gly Ile Val Pro Thr Asp  
35 40 45

Gln Leu His Leu Lys Gln Xaa  
50 55

<210> 337

<211> 59

<212> PRT

<213> Homo sapiens

<400> 337

Met Ser Tyr Pro Leu Phe Leu Phe Met Ser Cys Met Val Ile Ser Leu  
1 5 10 15

Ser Pro Asn Ala Gly Ser Gln Thr Ser Thr Val Arg Cys Leu Ser Asp  
20 25 30

Leu Val Thr Phe Thr Leu Ile Lys Gly Ser Pro Val His Gln Thr Pro  
           35                          40                          45

Tyr Leu Glu Ser Ser Ile Asn Cys Ile Thr Phe  
       50                          55

<210> 338  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals stop translation

<400> 338  
 Met His Pro Ala Arg Lys Leu Leu Ser Leu Leu Phe Leu Ile Leu Met  
       1                          5                          10                          15  
 Gly Thr Glu Leu Thr Gln Asp Ser Ala Ala Pro Asp Ser Leu Leu Arg  
                           20                          25                          30  
 Ser Ser Lys Gly Ser Thr Arg Gly Ser Leu Ala Ala Ile Val Ile Trp  
                           35                          40                          45  
 Arg Gly Lys Ser Glu Ser Arg Ile Ala Lys Thr Pro Gly Ile Phe Arg  
       50                          55                          60  
 Gly Gly Gly Thr Leu Val Leu Pro Pro Thr His Thr Pro Glu Trp Leu  
       65                          70                          75                          80  
 Ile Leu Pro Leu Gly Ile Thr Leu Pro Leu Gly Ala Pro Glu Thr Gly  
                           85                          90                          95  
 Gly Gly Asp Cys Ala Ala Glu Thr Trp Lys Gly Ser Gln Arg Ala Gly  
                           100                          105                          110  
 Gln Leu Cys Ala Leu Leu Ala Xaa  
       115                          120

<210> 339  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 339  
 Met Pro Ser Phe Phe Leu Ser Leu Ile Gln Thr Asn Thr Leu Gly Ser  
       1                          5                          10                          15

Ala Ser Phe Leu Leu Phe Leu Thr Leu His Ile His Leu Ser Pro Asn

20

25

30

Xaa Val His Ser Ala Ser

35

&lt;210&gt; 340

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 340

Met Phe Ser Arg Thr Ser Asn Phe Trp Thr Phe Phe Phe Gln Phe Leu

1

5

10

15

Ile Phe Lys Val Phe Leu Val Leu Lys Asn Leu Phe Thr Ser Gln Lys

20

25

30

Ile Tyr Lys Ile Tyr Ser Glu Lys Pro Lys Lys Lys Lys Lys

35

40

45

&lt;210&gt; 341

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 341

Met Gly Leu Leu Ile Phe Met Leu Leu Ile Gly Ile His Ser Gln Cys

1

5

10

15

Ser Xaa

&lt;210&gt; 342

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 342

Met Val Leu Phe Cys Phe Val Leu Phe Cys Phe Val Phe Glu Met Asp

1

5

10

15

Ser Ser Ser Val Thr Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Ser

20

25

30

Leu Gln Ala Pro Pro Pro Gly Phe Ser Pro Phe Ser Cys Leu Ser Leu

35

40

45

Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Asn Phe  
 50 55 60

Leu Tyr Phe Leu Val Glu Thr Gly Phe His His Val Ser Gln Asp Gly  
 65 70 75 80

Leu Asp Leu Leu Thr Ser Xaa  
 85

<210> 343

<211> 538

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (538)

<223> Xaa equals stop translation

<400> 343

Met Ser Thr Lys Lys Leu Cys Ile Val Gly Gly Ile Leu Leu Val Phe  
 1 5 10 15

Gln Ile Ile Ala Phe Leu Val Gly Gly Leu Ile Ala Pro Gly Pro Thr  
 20 25 30

Thr Ala Val Ser Tyr Met Ser Val Lys Cys Val Asp Ala Arg Lys Asn  
 35 40 45

His His Lys Thr Lys Trp Phe Val Pro Trp Gly Pro Asn His Cys Asp  
 50 55 60

Lys Ile Arg Asp Ile Glu Glu Ala Ile Pro Arg Glu Ile Glu Ala Asn  
 65 70 75 80

Asp Ile Val Phe Ser Val His Ile Pro Leu Pro His Met Glu Met Ser  
 85 90 95

Pro Trp Phe Gln Phe Met Leu Phe Ile Leu Gln Leu Asp Ile Ala Phe  
 100 105 110

Lys Leu Asn Asn Gln Ile Arg Glu Asn Ala Glu Val Ser Met Asp Val  
 115 120 125

Ser Leu Ala Tyr Arg Asp Asp Ala Phe Ala Glu Trp Thr Glu Met Ala  
 130 135 140

His Glu Arg Val Pro Arg Lys Leu Lys Cys Thr Phe Thr Ser Pro Lys  
 145 150 155 160

Thr Pro Glu His Glu Gly Arg Tyr Tyr Glu Cys Asp Val Leu Pro Phe  
 165 170 175

Met Glu Ile Gly Ser Val Ala His Lys Phe Tyr Leu Leu Asn Ile Arg  
 180 185 190



Leu Pro Val Asn Glu Lys Lys Lys Ile Asn Val Gly Ile Gly Glu Ile  
 195 200 205  
 Lys Asp Ile Arg Leu Val Gly Ile His Gln Asn Gly Gly Phe Thr Lys  
 210 215 220  
 Val Trp Phe Ala Met Lys Thr Phe Leu Thr Pro Ser Ile Phe Ile Ile  
 225 230 235 240  
 Met Val Trp Tyr Trp Arg Arg Ile Thr Met Met Ser Arg Pro Pro Val  
 245 250 255  
 Leu Leu Glu Lys Val Ile Phe Ala Leu Gly Ile Ser Met Thr Phe Ile  
 260 265 270  
 Asn Ile Pro Val Glu Trp Phe Ser Ile Gly Phe Asp Trp Thr Trp Met  
 275 280 285  
 Leu Leu Phe Gly Asp Ile Arg Gln Gly Ile Phe Tyr Ala Met Leu Leu  
 290 295 300  
 Ser Phe Trp Ile Ile Phe Cys Gly Glu His Met Met Asp Gln His Glu  
 305 310 315 320  
 Arg Asn His Ile Ala Gly Tyr Trp Lys Gln Val Gly Pro Ile Ala Val  
 325 330 335  
 Gly Ser Phe Cys Leu Phe Ile Phe Asp Met Cys Glu Arg Gly Val Gln  
 340 345 350  
 Leu Thr Asn Pro Phe Tyr Ser Ile Trp Thr Thr Asp Ile Gly Thr Glu  
 355 360 365  
 Leu Ala Met Ala Phe Ile Ile Val Ala Gly Ile Cys Leu Cys Leu Tyr  
 370 375 380  
 Phe Leu Phe Leu Cys Phe Met Val Phe Gln Val Phe Arg Asn Ile Ser  
 385 390 395 400  
 Gly Lys Gln Ser Ser Leu Pro Ala Met Ser Lys Val Arg Arg Leu His  
 405 410 415  
 Tyr Glu Gly Leu Ile Phe Arg Phe Lys Phe Leu Met Leu Ile Thr Leu  
 420 425 430  
 Ala Cys Ala Ala Met Thr Val Ile Phe Phe Ile Val Ser Gln Val Thr  
 435 440 445  
 Glu Gly His Trp Lys Trp Gly Gly Val Thr Val Gln Val Asn Ser Ala  
 450 455 460  
 Phe Phe Thr Gly Ile Tyr Gly Met Trp Asn Leu Tyr Val Phe Ala Leu  
 465 470 475 480  
 Met Phe Leu Tyr Ala Pro Ser His Lys Asn Tyr Gly Glu Asp Gln Ser  
 485 490 495

Asn Gly Met Gln Leu Pro Cys Lys Ser Arg Glu Asp Cys Ala Leu Phe  
 500 505 510

Val Ser Glu Leu Tyr Gln Glu Leu Phe Ser Ala Ser Lys Tyr Ser Phe  
 515 520 525

Ile Asn Asp Asn Ala Ala Ser Gly Ile Xaa  
 530 535

<210> 344  
 <211> 202  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (202)  
 <223> Xaa equals stop translation

<400> 344

Met Gly Ile Ala Leu Ala Val Leu Gly Trp Leu Ala Val Met Leu Cys  
 1 5 10 15

Cys Ala Leu Pro Met Trp Arg Val Thr Ala Phe Ile Gly Ser Asn Ile  
 20 25 30

Val Thr Ser Gln Thr Ile Trp Glu Gly Leu Trp Met Asn Cys Val Val  
 35 40 45

Gln Ser Thr Gly Gln Met Gln Cys Lys Val Tyr Asp Ser Leu Leu Ala  
 50 55 60

Leu Pro Gln Asp Leu Gln Ala Ala Arg Ala Leu Val Ile Ile Ser Ile  
 65 70 75 80

Ile Val Ala Ala Leu Gly Val Leu Leu Ser Val Val Gly Gly Lys Cys  
 85 90 95

Thr Asn Cys Leu Glu Asp Glu Ser Ala Lys Ala Lys Thr Met Ile Val  
 100 105 110

Ala Gly Val Val Phe Leu Leu Ala Gly Leu Met Val Ile Val Pro Val  
 115 120 125

Ser Trp Thr Ala His Asn Ile Ile Gln Asp Phe Tyr Asn Pro Leu Val  
 130 135 140

Ala Ser Gly Gln Lys Arg Glu Met Gly Ala Ser Leu Tyr Val Gly Trp  
 145 150 155 160

Ala Ala Ser Gly Leu Leu Leu Gly Gly Gly Leu Leu Cys Cys Asn  
 165 170 175

Cys Pro Pro Arg Thr Asp Lys Pro Tyr Ser Ala Lys Tyr Ser Ala Ala  
 180 185 190

Arg Ser Ala Ala Ala Ser Asn Tyr Val Xaa

195

200

<210> 345  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 345  
 Met Val Ser Ile Ser Val Val Leu Arg Val Ser Leu Pro Thr Leu Glu  
           1                  5                  10                  15  
 Pro Val Pro Val Ala Gly Arg Ser Ile Trp Ile Ser Thr Thr Ser Pro  
                   20                  25                  30  
 Ser Met Ile Ser Val Ser Ser Leu Met Arg Thr Pro Met Asp Arg Arg  
           35                  40                  45  
 Lys Ala Cys Val Ser Ala Ser Val Leu Leu Ile Ser Arg Glu Lys Ile  
           50                  55                  60  
 Ser Leu Pro Ala Met Ala Val Asn Gly Val Ser Gly Pro Arg Ala Cys  
           65                  70                  75                  80  
 Ala Met Pro Met Ala Met Ala Val Phe Pro Val Pro Gly Trp Pro Ala  
                   85                  90                  95  
 Ile Arg Thr Ala Arg Pro Ala Ile Phe Pro Ser Arg Ile Ile Ser Ser  
           100                  105                  110  
 Thr Thr Pro Ala Ala Arg Arg Ala Ala Ser  
           115                  120

<210> 346  
 <211> 260  
 <212> PRT  
 <213> Homo sapiens

<400> 346  
 Met Leu Ala Leu Leu Gly Leu Ser Gln Ala Leu Asn Ile Leu Leu Gly  
           1                  5                  10                  15  
 Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys Glu Lys Gly  
           20                  25                  30  
 Asn Phe Asn Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr  
           35                  40                  45  
 Leu Arg Leu Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg Thr Tyr Asn  
           50                  55                  60  
 Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln Arg Leu Tyr  
           65                  70                  75                  80  
 Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala  
           85                  90                  95

Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp  
 100 105 110  
 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn Ser Ile Tyr Glu Leu  
 115 120 125  
 Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val Leu Glu Tyr Ala Thr  
 130 135 140  
 Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr Ser Gln Ala Gly Phe  
 145 150 155 160  
 Ser Gly Glu Asp Arg Leu Glu Gln Ala Lys Leu Phe Cys Arg Thr Leu  
 165 170 175  
 Glu Asp Ile Leu Ala Asp Ala Pro Glu Ser Gln Asn Asn Cys Arg Leu  
 180 185 190  
 Ile Ala Tyr Gln Glu Pro Ala Asp Asp Ser Ser Phe Ser Leu Ser Gln  
 195 200 205  
 Glu Val Leu Arg His Leu Arg Gln Glu Glu Lys Glu Glu Val Thr Val  
 210 215 220  
 Gly Ser Leu Lys Thr Ser Ala Val Pro Ser Thr Ser Thr Met Ser Gln  
 225 230 235 240  
 Glu Pro Glu Leu Leu Ile Ser Gly Met Glu Lys Pro Leu Pro Leu Arg  
 245 250 255  
 Thr Asp Phe Ser  
 260

<210> 347  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals stop translation

<400> 347  
 Met Thr Pro Gln Lys Pro Ala Leu Ala Val Leu Leu Leu Glu Val Pro  
 1 5 10 15  
 Leu Leu Leu Thr Leu Ser Val Leu Lys Lys Arg Cys Leu Val Thr Cys  
 20 25 30  
 Glu Pro Thr Ser Arg Phe Val Ser Cys Asp Leu Pro Leu Ser Val Xaa  
 35 40 45

<210> 348  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (288)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (334)  
 <223> Xaa equals stop translation

<400> 348

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Ala | Ala | Trp | Leu | Gln | Val | Leu | Pro | Val | Ile | Leu | Leu | Leu | 1   | 5   | 10  | 15  |
| Leu | Gly | Ala | His | Pro | Ser | Pro | Leu | Ser | Phe | Phe | Ser | Ala | Gly | Pro | Ala | 20  | 25  | 30  |     |
| Thr | Val | Ala | Ala | Ala | Asp | Arg | Ser | Lys | Trp | His | Ile | Pro | Ile | Pro | Ser | 35  | 40  | 45  |     |
| Gly | Lys | Asn | Tyr | Phe | Ser | Phe | Gly | Lys | Ile | Leu | Phe | Arg | Asn | Thr | Thr | 50  | 55  | 60  |     |
| Ile | Phe | Leu | Lys | Phe | Asp | Gly | Glu | Pro | Cys | Asp | Leu | Ser | Leu | Asn | Ile | 65  | 70  | 75  | 80  |
| Thr | Trp | Tyr | Leu | Lys | Ser | Ala | Asp | Cys | Tyr | Asn | Glu | Ile | Tyr | Asn | Phe | 85  | 90  | 95  |     |
| Lys | Ala | Glu | Glu | Val | Glu | Leu | Tyr | Leu | Glu | Lys | Leu | Lys | Glu | Lys | Arg | 100 | 105 | 110 |     |
| Gly | Leu | Ser | Gly | Lys | Tyr | Gln | Thr | Ser | Ser | Lys | Leu | Phe | Gln | Asn | Cys | 115 | 120 | 125 |     |
| Ser | Glu | Leu | Phe | Lys | Thr | Gln | Thr | Phe | Ser | Gly | Asp | Phe | Met | His | Arg | 130 | 135 | 140 |     |
| Leu | Pro | Leu | Leu | Gly | Glu | Lys | Gln | Glu | Ala | Lys | Glu | Asn | Gly | Thr | Asn | 145 | 150 | 155 | 160 |
| Leu | Thr | Phe | Ile | Gly | Asp | Lys | Thr | Ala | Met | His | Glu | Pro | Leu | Gln | Thr | 165 | 170 | 175 |     |
| Trp | Gln | Asp | Ala | Pro | Tyr | Ile | Phe | Ile | Val | His | Ile | Gly | Ile | Ser | Ser | 180 | 185 | 190 |     |
| Ser | Lys | Glu | Ser | Ser | Lys | Glu | Asn | Ser | Leu | Ser | Asn | Leu | Phe | Thr | Met | 195 | 200 | 205 |     |
| Thr | Val | Glu | Val | Lys | Gly | Pro | Tyr | Glu | Tyr | Leu | Thr | Leu | Glu | Asp | Tyr | 210 | 215 | 220 |     |

Pro Leu Met Ile Phe Phe Met Val Met Cys Ile Val Tyr Val Leu Phe  
225 230 235 240

Gly Val Leu Trp Leu Ala Trp Ser Ala Cys Tyr Trp Arg Asp Leu Leu  
245 250 255

Arg Ile Gln Phe Trp Ile Gly Ala Val Ile Phe Leu Gly Met Leu Glu  
260 265 270

Lys Ala Val Phe Tyr Ala Glu Phe Gln Asn Ile Arg Tyr Lys Gly Xaa  
275 280 285

Ser Val Gln Gly Ala Leu Ile Leu Ala Glu Leu Leu Ser Ala Val Lys  
290 295 300

Arg Ser Leu Ala Arg Thr Leu Val Ile Ile Val Ser Leu Gly Tyr Gly  
305 310 315 320

Ile Val Lys Pro Arg Leu Glu Ser Leu Phe Ile Arg Leu Xaa  
325 330

<210> 349

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals stop translation

<400> 349

Met Val Leu Xaa Val Val Thr Leu Gly Leu Ala Leu Phe Thr Leu Cys  
1 5 10 15

Gly Lys Phe Lys Arg Trp Lys Leu Asn Gly Ala Phe Leu Leu Ile Thr  
20 25 30

Ala Phe Leu Ser Val Leu Ile Trp Val Ala Trp Met Thr Met Tyr Leu  
35 40 45

Phe Gly Asn Val Lys Leu Gln Gln Gly Asp Ala Trp Asn Asp Pro Thr  
50 55 60

Leu Ala Ile Thr Leu Ala Ala Ser Ala Gly Ser Ser Ser Ser Thr  
65 70 75 80

Pro Ser Leu Arg Ser Thr Ala Pro Phe Cys Gln Pro Cys Arg Arg Thr  
85 90 95

Arg Pro Thr Thr Ser Thr Arg Arg Ser Pro Gly Cys Gly Arg Arg Pro  
100 105 110

Ser Arg Arg Thr Cys Ser Cys Arg Gly Pro Ile Trp Arg Thr Arg Pro  
115 120 125

Ser Pro Trp Met Asn Thr Met Gln Leu Ser Glu Gln Gln Asp Phe Pro  
130 135 140

Thr Ala Ala Trp Glu Lys Asp Pro Val Ala Ala Trp Gly Lys Asp Pro  
145 150 155 160

Ala Leu Arg Leu Glu Ala Thr Cys Ile Ser Gln Leu Arg Trp Pro Ser  
165 170 175

Cys Ser Thr Val Gly Pro Ser Gln Leu Leu Arg Gln Val Thr Gln Glu  
180 185 190

Xaa Thr Phe Gly Glu Arg Leu Xaa  
195 200

<210> 350

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals stop translation

<400> 350

Met Leu Leu His His Gln Leu Leu Ile Val Thr Leu His Leu Val Leu  
1 5 10 15

Leu Leu Ala Thr Leu Leu Val Xaa  
20

<210> 351

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (143)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 351

Met Thr Lys Ala Leu Leu Ile Tyr Leu Val Ser Ser Phe Leu Ala Leu  
 1 5 10 15

Asn Gln Ala Ser Leu Ile Ser Arg Cys Asp Leu Ala Gln Val Leu Gln  
 20 25 30

Leu Glu Asp Leu Asp Gly Phe Glu Gly Tyr Ser Leu Ser Asp Trp Leu  
 35 40 45

Cys Leu Ala Phe Val Glu Ser Lys Phe Asn Ile Ser Lys Ile Asn Glu  
 50 55 60

Asn Ala Asp Gly Ser Phe Asp Tyr Gly Leu Phe Gln Ile Asn Ser His  
 65 70 75 80

Tyr Trp Cys Asn Xaa Tyr Lys Ser Tyr Ser Glu Asn Leu Cys His Val  
 85 90 95

Asp Cys Gln Asp Leu Leu Asn Pro Asn Leu Leu Ala Gly Ile His Cys  
 100 105 110

Ala Lys Arg Ile Val Ser Gly Ala Arg Gly Met Asn Asn Trp Val Arg  
 115 120 125

Met Glu Xaa Cys Thr Val Gln Ala Gly His Ser Ser Thr Gly Xaa  
 130 135 140

&lt;210&gt; 352

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 352

Met Leu Val Ile Ala Gly Gly Ile Leu Ala Ala Leu Leu Leu Ile  
 1 5 10 15

Val Val Val Leu Cys Leu Tyr Phe Lys Ile His Asn Ala Leu Lys Ala  
 20 25 30

Ala Lys Glu Pro Glu Ala Val Ala Val Lys Asn His Asn Pro Asp Lys  
 35 40 45

Val Trp Trp Ala Lys Asn Ser Gln Ala Lys Thr Ile Ala Thr Glu Ser  
 50 55 60

Cys Pro Ala Leu Gln Cys Cys Glu Gly Tyr Arg Met Cys Ala Ser Phe



|                 |   |    |    |
|-----------------|---|----|----|
| 65              | 70  | 75 | 80 |
| Asp Ser Leu Pro | Pro Cys Cys Cys Asp Ile Asn Glu Gly Leu Xaa |    |    |
|                 | 85  | 90 | 95 |

&lt;210&gt; 353

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 353

|   |
|---|
| Met Leu Leu Lys Ser Asn Ile Leu Met Leu Asn Leu Phe Ala Ala Asn |
| 1 5 10 15   |

|   |
|---|
| Val Gly Ala Asn Phe Ala Leu Thr Val Glu Lys Ile Gly Met Ile Leu |
| 20 25 30  |

|                         |
|-------------------------|
| Leu Asn Val Ser Gly Xaa |
| 35                      |

&lt;210&gt; 354

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 354

|   |
|---|
| Met Leu Val Val Ala Phe Gly Leu Leu Val Leu Tyr Ile Leu Leu Ala |
| 1 5 10 15   |

|   |
|---|
| Ser Ser Trp Lys Arg Pro Glu Pro Gly Ile Leu Thr Asp Arg Gln Pro |
| 20 25 30  |

|                             |
|-----------------------------|
| Leu Leu His Asp Gly Glu Xaa |
| 35                          |

&lt;210&gt; 355

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 355

Ser Asp Pro Leu Ala Ser Ala Ser Gln Asn Ala Gly Ile Val Ser Val  
 1 5 10 15

Gly Leu Cys Thr Arg Pro Gly Pro Gln Phe Lys Asn Ala Gln Pro Pro  
 20 25 30

Phe Pro Xaa Gln Lys Ala Pro Arg Cys Leu Trp Glu Asn Gln Pro Pro  
 35 40 45

Pro Trp Arg Lys Ala Trp Asp Leu Pro Ser His Leu Gly Arg Arg Gly  
 50 55 60

Ile Cys Gly Lys Ser Phe Xaa  
 65 70

&lt;210&gt; 356

&lt;211&gt; 227

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 356

Met Ala Asp Leu Leu Gly Ser Ile Leu Ser Ser Met Glu Lys Pro Pro  
 1 5 10 15

Ser Leu Gly Asp Gln Glu Thr Arg Arg Lys Ala Arg Glu Gln Ala Ala  
 20 25 30

Arg Leu Lys Lys Leu Gln Glu Gln Glu Lys Gln Gln Lys Val Glu Phe  
 35 40 45

Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp Ser Gly  
 50 55 60

Gln Ile Lys Lys Lys Phe Gln Pro Met Asn Lys Ile Glu Arg Ser Ile  
 65 70 75 80

Leu His Asp Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser Phe Gly  
 85 90 95

Glu Asp Asp Asp Cys Arg Tyr Val Met Ile Phe Lys Lys Glu Phe Ala  
 100 105 110

Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp  
 115 120 125

Pro Gln Lys Ala Glu Glu Lys Arg Lys Leu Lys Glu Leu Ala Gln Arg  
 130 135 140

Gln Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala  
 145 150 155 160

Ser Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala  
 165 170 175

Lys Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Val  
 180 185 190

Pro Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn  
 195 200 205

Glu Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu Glu Leu Pro  
 210 215 220

Pro Thr Ser  
 225

<210> 357

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals stop translation

<400> 357

Met Trp Asp Trp Asp Trp Ser Ala Pro Trp Ser Trp Pro Leu Trp Leu  
1 5 10 15

Ser Leu Ala Leu Val Cys Leu Ser Ala Gly Ala Lys Gly His Arg Ala  
20 25 30

Ser Glu Ala Gly His Ala Arg Ala Leu Thr Cys Glu Met Gly Ser Glu  
35 40 45

Phe Xaa Thr Ala Xaa Gly Leu Val Leu Gly Xaa Xaa Xaa Trp Thr Xaa  
50 55 60

Xaa Asn Gly Ser Ala Gly Pro Glu Arg Arg Gly Trp Arg Pro Ala Ala  
65 70 75 80

Phe Leu Ala Val Phe Leu Leu Gly Asp Xaa  
85 90

<210> 358

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 358

Met Phe Gly Pro Thr Phe His Ser Leu Val Leu Val Pro Pro Trp Pro  
1 5 10 15

Asn Leu Ser Leu Leu His Phe Thr Ser Pro Val Gly Gln His Ser Ser  
20 25 30

Phe Leu Pro Thr Ser Leu Arg Leu Xaa Lys Lys Lys Lys Lys Lys Lys  
35 40 45

<210> 359

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals stop translation

<400> 359

Met Cys Ser Lys Asn Gly Phe Leu Leu Ala Trp Ser Trp Asn Ser Pro  
 1 5 10 15  
 Trp Leu Pro Gln Ala Ser Leu Ala His Gly Cys Trp Gly Arg Trp Met  
 20 25 30  
 Ser Asp Leu Val Gly Cys Ser Arg Glu Asn Lys Cys Ala Leu Arg Asp  
 35 40 45  
 His Ser Glu Arg Val Gln Gly Xaa  
 50 55

<210> 360

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals stop translation

<400> 360

Ser Pro Leu Xaa Phe Cys Val Val Leu Leu Leu Gln Ala Ala Arg Gly  
 1 5 10 15  
 Tyr Val Val Arg Lys Pro Ala Gln Ser Arg Leu Asp Asp Asp Pro Pro  
 20 25 30  
 Pro Ser Thr Leu Leu Lys Asp Tyr Gln Asn Val Pro Gly Ile Glu Lys  
 35 40 45  
 Val Asp Asp Val Val Lys Arg Leu Leu Ser Leu Glu Met Ala Asn Lys  
 50 55 60  
 Lys Glu Met Leu Lys Ile Lys Gln Glu Gln Phe Met Lys Lys Ile Val  
 65 70 75 80  
 Ala Asn Pro Glu Asp Thr Arg Ser Leu Glu Ala Arg Ile Ile Ala Leu  
 85 90 95  
 Ser Val Lys Ile Arg Ser Tyr Glu Glu His Leu Glu Lys His Arg Lys  
 100 105 110  
 Asp Lys Ala His Lys Arg Tyr Leu Leu Met Ser Ile Asp Gln Arg Lys  
 115 120 125  
 Lys Met Leu Lys Asn Leu Arg Asn Thr Asn Tyr Asp Val Phe Glu Lys  
 130 135 140  
 Ile Cys Trp Gly Leu Gly Ile Glu Tyr Thr Phe Pro Pro Leu Tyr Tyr  
 145 150 155 160

Arg Arg Ala His Arg Arg Phe Val Thr Lys Lys Ala Leu Cys Ile Arg  
                           165                          170                          175

Val Phe Gln Glu Thr Gln Lys Leu Lys Lys Arg Arg Arg Ala Leu Lys  
                           180                          185                          190

Ala Ala Ala Ala Ala Gln Lys Gln Ala Lys Arg Arg Asn Pro Asp Ser  
                           195                          200                          205

Pro Ala Lys Ala Ile Pro Lys Thr Leu Lys Asp Ser Gln Xaa  
                           210                          215                          220

<210> 361

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals stop translation

<400> 361

Met Gly Ala Pro Ala Ala Ser Leu Leu Leu Leu Leu Leu Phe Ala  
                           1                          5                          10                          15

Cys Cys Trp Ala Pro Gly Gly Ala Asn Leu Ser Gln Asp Asp Ser Gln  
                           20                          25                          30

Pro Trp Thr Ser Asp Glu Thr Val Val Ala Gly Gly Thr Val Val Leu  
                           35                          40                          45

Lys Cys Gln Val Lys Asp His Glu Asp Ser Ser Leu Gln Trp Ser Xaa  
                           50                          55                          60

<210> 362

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (135)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (144)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (154)  
 <223> Xaa equals stop translation

<400> 362  
 Met Val Ala Pro Val Trp Tyr Leu Val Ala Ala Ala Leu Leu Val Gly  
   1                  5                  10                  15  
 Phe Ile Leu Phe Leu Thr Arg Ser Arg Gly Arg Ala Ala Ser Ala Gly  
                   20                  25                  30  
 Gln Glu Pro Leu His Asn Glu Glu Leu Ala Gly Ala Gly Arg Val Ala  
                   35                  40                  45  
 Gln Pro Gly Pro Leu Glu Pro Glu Glu Pro Arg Ala Gly Gly Arg Pro  
   50                  55                  60  
 Arg Arg Arg Arg Asp Leu Gly Ser Arg Leu Gln Ala Gln Arg Arg Ala  
   65                  70                  75                  80  
 Gln Arg Val Ala Trp Ala Glu Ala Asp Glu Asn Glu Glu Glu Ala Val  
                   85                  90                  95  
 Ile Leu Ala Gln Glu Glu Glu Gly Val Glu Lys Pro Ala Glu Xaa His  
                   100                  105                  110  
 Leu Ser Gly Lys Ile Gly Ala Lys Lys Leu Arg Xaa Xaa Glu Glu Lys  
                   115                  120                  125  
 Gln Ala Arg Lys Ala Gln Xaa Glu Ala Glu Glu Ala Glu Arg Glu Xaa  
                   130                  135                  140  
 Arg Lys Arg Leu Glu Ser Gln Arg Glu Xaa  
   145                  150

<210> 363  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)

<223> Xaa equals stop translation

<400> 363

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gln | Lys | Cys | Met | Leu | Ser | Ala | Leu | Val | Phe | His | Ile | Gln | Trp | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Xaa

<210> 364

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals stop translation

<400> 364

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Val | Cys | Ser | Phe | Leu | Phe | Leu | Xaa |
| 1   |     |     |     | 5   |     |     |     |     | 10  |

<210> 365

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals stop translation

<400> 365

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Glu | Leu | Cys | Val | Ser | Leu | Arg | Ser | Leu | Asn | Phe | Xaa |
| 1   |     |     |     |     | 5   |     |     |     |     |     | 10  |     |     |

<210> 366

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals stop translation

<400> 366

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Cys | Glu | Phe | Xaa | Xaa | Xaa | Ile | Met | Xaa | Leu | Ala | Gly | Tyr | Phe | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Cys Xaa

<210> 367

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 367

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Gly | Gly | Tyr | Val | Ser | Ser | Phe | Ser | Phe | Pro | Pro | Val | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Leu | Leu | Pro | Ala | Ser | Phe | Ala | Phe | Pro | Phe | Leu | Pro | Gly | Thr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Cys | Pro | Phe | Leu | Tyr | Phe | Leu | Pro | Ser | Pro | Phe | Ser | Pro | Leu | Pro |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Leu | Thr | Arg | Ser | Asn | Ser | Phe | Leu | Leu | Asn | Gly | Xaa |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |

<210> 368

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals stop translation

<400> 368

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Lys | Ser | Met | Ser | Val | Ser | Asp | Ile | Tyr | Ala | Leu | Glu | Ser | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Gly Arg Ser Leu Phe Thr Leu Asn Ser Met Cys Leu Pro Leu Ser Phe  
                   20                                  25                                  30

Xaa

<210> 369

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 369

Met Gly Gly Ala Ser Arg Arg Val Glu Ser Gly Ala Trp Ala Tyr Leu  
       1                                  5                                  10                                  15

Ser Pro Leu Val Leu Arg Lys Glu Leu Glu Ser Leu Val Glu Asn Glu  
                                   20                                  25                                  30

Gly Ser Glu Val Leu Ala Leu Pro Glu Leu Pro Ser Ala His Pro Ile  
                                   35                                  40                                  45

Ile Phe Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser  
       50                                  55                                  60

Ile Leu Pro Gly Leu Val Leu Ala Ser Cys Asp Gly Pro Ser Xaa Ser  
       65                                  70                                  75                                  80

Gln Ala Pro Ser Pro Trp Leu Thr Pro Asp Pro Ala Ser Val Gln Val  
                                   85                                  90                                  95

Arg Leu Leu Trp Asp Val Leu Thr Pro Asp Pro Asn Ser Cys Pro Pro  
                                   100                                  105                                  110

Leu Tyr Val Leu Trp Arg Val His Ser Gln Ile Pro Gln Arg Val Val  
                                   115                                  120                                  125

Trp Pro Gly Pro Val Pro Ala Ser Leu Ser Leu Ala Leu Leu Glu Ser  
                                   130                                  135                                  140

Val Leu Arg His Val Gly Leu Asn Glu Val His Lys Ala Val Gly Leu  
       145                                  150                                  155                                  160

Leu Leu Glu Thr Leu Gly Pro Pro Pro Thr Gly Leu His Leu Gln Arg  
                                   165                                  170                                  175

Gly Ile Tyr Arg Glu Ile Leu Phe Leu Thr Met Ala Ala Leu Gly Lys  
                                   180                                  185                                  190

Asp His Val Asp Ile Val Ala Phe Asp Lys Lys Tyr Lys Ser Ala Phe  
                                   195                                  200                                  205

Asn Lys Leu Ala Ser Ser Met Gly Lys Glu Glu Leu Arg His Arg Arg

210

215

220

Ala Gln Met Pro Thr Pro Lys Ala Ile Asp Cys Arg Lys Cys Phe Gly  
 225 230 235 240

Ala Pro Pro Glu Cys  
 245

&lt;210&gt; 370

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 370

Met Lys Phe Ser Leu Leu Phe Leu Pro Met Leu Leu Ile Leu Lys Pro  
 1 5 10 15

Asp Leu Phe His Ile Ser Ile Cys Thr Leu Ala Ala Cys Gly Leu Thr  
 20 25 30

Phe Pro Xaa  
 35

&lt;210&gt; 371

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 371

Met Leu Phe Phe Phe Ile Leu His Leu Leu Ser Ile Met Ser Phe Leu  
 1 5 10 15

Ser Pro Asp Ile Met Xaa  
 20

&lt;210&gt; 372

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 372

Met Phe Gly Leu Leu Val Glu Ser Gln Thr Leu Leu Glu Glu Asn Ala  
 1 5 10 15

Val Gln Gly Thr Glu Arg Thr Leu Gly Leu Asn Ile Ala Pro Phe Ile  
 20 25 30

Asn Gln Phe Gln Val Pro Ile Arg Val Phe Leu Asp Leu Ser Ser Leu  
 35 40 45

Pro Cys Ile Pro Leu Ser Lys Pro Val Glu Leu Leu Arg Leu Asp Leu  
 50 55 60

Met Thr Pro Tyr Leu Asn Thr Ser Asn Arg Glu Val Lys Val Tyr Val  
 65 70 75 80

Cys Xaa Ile Trp Glu Asp Leu Thr Ala Ile Pro Phe Trp Val Ser Tyr  
 85 90 95

Val Pro

&lt;210&gt; 373

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 373

Met Phe Gly Ala His Arg Xaa Trp Gln Gly Ser Val Leu Leu Phe Leu  
 1 5 10 15

Ser Phe Ala Trp Gly Asn Gly Gly Ser Val Thr Phe Ser Asp Val Pro  
 20 25 30

Arg Val Met Pro Leu Ala Gly Gly Pro Xaa Xaa Gln Val Ser Ser Thr  
 35 40 45

Pro Arg Pro Pro Pro His Gln Val Thr Ser Ser Pro Gly Leu Glu Ser  
 50 55 60

Ala His Ile Val Cys Pro Glu Arg Lys Lys Lys Lys Lys Lys  
 65 70 75

<210> 374  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals stop translation

<400> 374  
 Thr Leu Leu Xaa Phe Leu Xaa Leu Leu Thr Thr Glu Gly Gly Arg Glu  
           1                  5                  10                  15

Asn Ile Phe Xaa Gly Arg Ile Leu Xaa Leu Gln Xaa Ser Pro Xaa  
                   20                  25                  30

<210> 375  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)

<223> Xaa equals stop translation

<400> 375

Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu  
1 5 10 15

Leu Ser Phe Leu Ile Ser Asp Trp Pro Pro Pro Thr Gly Ser Ala Xaa  
20 25 30

His Lys Ile Leu Arg Leu Met Val Val Gln Arg Leu Ser Leu Leu Asp  
35 40 45

Gln Arg Lys Arg Trp Ser Glu Ala Xaa  
50 55

<210> 376

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 376

Met Cys His His Ala Trp Leu Ile Phe Lys Phe Phe Val Xaa Met Gly  
1 5 10 15

Ser His Tyr Val Ala Gln Ala Gly Phe Arg Phe Leu Cys Ser Arg Asp  
20 25 30

Ser Ala Asn Leu Ala Pro Gln Ser Ala Gly Ile Thr Asn Val Ser His  
35 40 45

Cys Ile Trp Pro Ile Phe Phe Phe Lys Lys Lys Met Gln Arg Cys  
50 55 60

<210> 377

<211> 38

<212> PRT

<213> Homo sapiens

<400> 377

Met Thr Met Val Leu Cys Ile Phe Ile Leu Gly His His Ala Arg Glu  
1 5 10 15

Asp Pro Pro Ser Asn Gly His Ile Thr Ser Glu Gly Ala Phe Leu Val  
20 25 30

Asn Val Gly Ala Pro Gln  
35

<210> 378

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 378

Met Leu Arg Leu Glu Ala Arg Ala Thr Thr Pro Gly Leu Gln Thr His  
1 5 10 15

Ser Cys Leu Gly Phe Tyr Ile Lys Tyr Glu His Lys Asn Thr Phe Pro  
20 25 30

Lys Tyr Ser Leu Trp Leu Cys Leu Thr Leu Gly Thr Xaa Pro Ser Thr  
35 40 45

Ser Ser Ile Leu Arg Tyr Val Arg Gly Val Tyr Arg Gly Leu Glu Tyr  
50 55 60

Ile Arg Phe Phe Ser Asn Ser Ser Ser Ser Arg Arg Arg Leu Thr Thr  
65 70 75 80

Ser Leu Gly Phe Lys Val Ser Gly Leu Lys Phe Pro Pro Glu Ile Thr  
85 90 95

Ile Arg

<210> 379

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals stop translation

<400> 379

Thr Leu Thr Ser Phe Leu Glu Leu Pro Leu Ala Pro Glu Pro Xaa  
1 5 10 15

<210> 380

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals stop translation

<400> 380

Met His Arg Tyr Ile Thr Phe Phe Lys Cys Phe Arg Ser Val Ile Leu

|     |     |     |     |
|-----|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Asp | Leu | Leu | Phe |
|     | Ile | Leu | Ser |
|     | Pro | Leu | Ser |
|     | Gln | Gly | Cys |
|     | Phe | Ile | Leu |
| 20  | 25  | 30  |     |

Phe Xaa

<210> 381  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

|   |
|---|
| <400> 381   |
| Met Phe Gly Phe Ile Phe Leu Leu Leu Ile Phe Cys Ile Xaa Leu Cys |
| 1 5 10 15   |

|   |
|---|
| Ser Arg Thr Leu Ser Thr Phe Ile Pro Lys Leu Val Gly Phe Leu Tyr |
| 20 25 30  |

|   |
|---|
| Trp Lys Phe Ser Ile Asn Leu Ser Leu Leu Leu Thr Leu Ile Lys Lys |
| 35 40 45  |

|   |
|---|
| Lys Lys Lys Lys Lys Lys Thr Pro Arg Gly Gly Pro Gly Xaa Gln Ser |
| 50 55 60  |

Pro. Pro  
 65

<210> 382  
 <211> 317  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (207)  
 <223> Xaa equals any of the naturally occurring L-amino acids

|   |
|---|
| <400> 382   |
| Met Pro Gly Leu Gly Arg Pro Arg Gln Ala Arg Trp Thr Leu Met Leu |
| 1 5 10 15   |

|   |
|---|
| Leu Leu Ser Thr Ala Met Tyr Gly Ala His Ala Pro Leu Leu Ala Leu |
| 20 25 30  |



Cys His Val Asp Gly Arg Val Pro Phe Arg Pro Ser Ser Ala Val Leu  
 35 40 45  
 Leu Thr Glu Leu Thr Lys Leu Leu Cys Ala Phe Ser Leu Leu Val  
 50 55 60  
 Gly Trp Gln Ala Trp Pro Gln Gly Pro Pro Pro Trp Arg Gln Ala Ala  
 65 70 75 80  
 Pro Phe Ala Leu Ser Ala Leu Leu Tyr Gly Ala Asn Asn Asn Leu Val  
 85 90 95  
 Ile Tyr Leu Gln Arg Tyr Met Asp Pro Ser Thr Tyr Gln Val Leu Ser  
 100 105 110  
 Asn Leu Lys Ile Gly Ser Thr Ala Val Leu Tyr Cys Leu Cys Leu Arg  
 115 120 125  
 His Arg Leu Ser Val Arg Gln Gly Leu Ala Leu Leu Leu Leu Met Ala  
 130 135 140  
 Ala Gly Ala Cys Tyr Ala Ala Gly Gly Leu Gln Val Pro Gly Asn Thr  
 145 150 155 160  
 Leu Pro Ser Pro Pro Pro Ala Ala Ala Ala Ser Pro Met Pro Leu His  
 165 170 175  
 Ile Thr Pro Leu Gly Leu Leu Leu Leu Ile Leu Tyr Cys Leu Ile Ser  
 180 185 190  
 Gly Leu Ser Ser Val Tyr Thr Glu Leu Leu Met Lys Arg Gln Xaa Leu  
 195 200 205  
 Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr Thr Phe Gly Val Leu Leu  
 210 215 220  
 Asn Leu Gly Leu His Ala Gly Gly Gly Ser Gly Pro Gly Leu Leu Glu  
 225 230 235 240  
 Gly Phe Ser Gly Trp Ala Ala Leu Val Val Leu Ser Gln Ala Leu Asn  
 245 250 255  
 Gly Leu Leu Met Ser Ala Val Met Lys His Gly Ser Ser Ile Thr Arg  
 260 265 270  
 Leu Phe Val Val Ser Cys Ser Leu Val Val Asn Ala Val Leu Ser Ala  
 275 280 285  
 Val Leu Leu Arg Leu Gln Leu Thr Ala Ala Phe Phe Leu Ala Thr Leu  
 290 295 300  
 Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly Ser Arg  
 305 310 315

&lt;210&gt; 383

&lt;211&gt; 31

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 383

Met Gly Glu Gln Pro His Phe Ser Leu Cys Val Leu Leu Ala Ala Val  
1 5 10 15

Arg Glu Asp Xaa Asp Pro Xaa Val Phe Pro Cys Cys Phe Leu Xaa  
20 25 30

<210> 384

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals stop translation

<400> 384

Met Ser Phe Ile Ala Leu His Pro Leu Leu Pro Glu Ala Ala Leu Gly  
1 5 10 15

Val Pro Gly Gln Ser Pro His Arg Pro Leu Trp Gln Thr Gln Cys Cys  
20 25 30

Val Ala Pro Pro Gln Pro Arg Ala Glu Phe Xaa  
35 40

<210> 385

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (255)

<223> Xaa equals stop translation

<400> 385

Met Val Thr Ala Leu Thr Leu Leu Ala Phe Pro Leu Leu Leu His

|   |     |     |     |
|---|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Ala Glu Arg Ile Ser Leu Val Phe Leu Leu Leu Phe Leu Gln Ser Phe | 20  | 25  | 30  |
| Leu Leu Leu His Leu Leu Ala Ala Gly Ile Pro Val Thr Thr Pro Gly | 35  | 40  | 45  |
| Pro Phe Thr Val Pro Trp Gln Ala Val Ser Ala Trp Ala Leu Met Ala | 50  | 55  | 60  |
| Thr Gln Thr Phe Tyr Ser Thr Gly His Gln Pro Val Phe Pro Ala Ile | 65  | 70  | 75  |
| His Trp His Ala Ala Phe Val Gly Phe Pro Glu Gly His Gly Ser Cys | 85  | 90  | 95  |
| Thr Trp Leu Pro Ala Leu Leu Val Gly Ala Asn Thr Phe Ala Ser His | 100 | 105 | 110 |
| Leu Leu Phe Ala Val Gly Cys Pro Leu Leu Leu Leu Trp Pro Phe Leu | 115 | 120 | 125 |
| Cys Glu Ser Gln Gly Leu Arg Lys Arg Gln Gln Pro Pro Gly Asn Glu | 130 | 135 | 140 |
| Ala Asp Ala Arg Val Arg Pro Glu Glu Glu Glu Glu Pro Leu Met Glu | 145 | 150 | 155 |
| Met Arg Leu Arg Asp Ala Pro Gln His Phe Tyr Ala Ala Leu Leu Gln | 165 | 170 | 175 |
| Leu Gly Leu Lys Tyr Leu Phe Ile Leu Gly Ile Gln Ile Leu Ala Cys | 180 | 185 | 190 |
| Ala Leu Ala Ala Ser Ile Leu Arg Arg His Leu Met Val Trp Lys Val | 195 | 200 | 205 |
| Phe Ala Pro Lys Phe Ile Phe Glu Ala Val Gly Phe Ile Val Ser Ser | 210 | 215 | 220 |
| Val Gly Leu Leu Leu Gly Ile Ala Leu Val Met Arg Val Asp Gly Ala | 225 | 230 | 235 |
| Val Ser Ser Trp Phe Arg Gln Leu Phe Leu Ala Gln Gln Arg Xaa     | 245 | 250 | 255 |

&lt;210&gt; 386

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals stop translation

<400> 386

Met Xaa Gly Pro Trp Gly Glu Glu Ala Leu Ile Arg Leu Pro Thr Pro  
 1 5 10 15

Ser Gly Leu Xaa  
 20

<210> 387  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals stop translation

<400> 387

Met Ala Thr Leu Glu Xaa Asn Gln Arg Glu Val Asp Arg Glu Ile Arg  
 1 5 10 15

Ser Leu Leu Leu Trp Phe Leu Leu Cys Glu Ile Val Ser Gly Trp Leu  
 20 25 30

Cys Pro Glu Gly Pro Trp Phe Ser Gln Gly Cys Gln Ile Tyr Lys Asn  
 35 40 45

Leu Ser Ser Ser Ser Tyr Asn Leu Ser Phe Leu Leu Ser Leu Xaa  
 50 55 60

<210> 388  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals stop translation

<400> 388

Met Ile His Ser Gly Cys Thr Ser Gln Cys Leu Glu Gly Phe Phe Leu  
 1 5 10 15

Ile Phe Leu Leu Asp Phe Asn Pro Val Leu Ala Leu Asp Leu Ile Gly  
20 25 30

Ile Met Arg Lys Ala Ser His Xaa  
35 40

<210> 389

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals stop translation

<400> 389

Met Val Phe Ser Ala Arg Val Ser Leu Tyr Thr Arg Phe Lys Val Ile  
1 5 10 15

Leu Leu Ser Leu Leu Ile Met Ile Leu His Val Cys Trp Val Trp Val  
20 25 30

Ile Leu Xaa  
35

<210> 390

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle$  (11)

<223> Xaa equals stop translation

 $\langle 400 \rangle$  390

Gly Leu Leu Tyr Ile Met Tyr Cys Asn Ile Xaa  
1 5 10

<210> 391

<211> 64

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (64)

<223> Xaa equals stop translation

<400> 391

Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu Pro  
1 5 10 15

Cys Arg Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val Ser  
                   20                  25                  30

Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg Lys  
           35                  40                  45

Ser Gly Gly Arg Asp His Thr Gly Gly Asn Lys Asp Arg Gly Ile Xaa  
       50                  55                  60

<210> 392

<211> 19

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals stop translation

<400> 392

Met Arg Lys Gln Arg Leu Val Pro Met Tyr Leu Gly Leu Ile Tyr Ile  
       1                  5                  10                  15

Leu Leu Xaa

<210> 393

<211> 43

<212> PRT

<213> Homo sapiens

<400> 393

Met Glu Ile Ser Val Ile Lys Ile Phe Gln Asp Glu Thr Thr Leu Lys  
       1                  5                  10                  15

Ile Lys Leu Cys Leu Val Ser Leu Ser Ser Leu Leu Val Ser Leu Leu  
                   20                  25                  30

Leu Leu Ile Leu Pro Glu Ser Thr Ser Leu Trp  
           35                  40

<210> 394

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals stop translation

<400> 394

Leu Leu Leu Pro Val Leu Ala Ser Ser Val Pro Ser His Ser Ala Thr  
 1 5 10 15

Xaa

<210> 395

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals stop translation

<400> 395

Met Leu Pro Leu Leu Leu Phe Thr Tyr Leu Asn Ser Phe Leu His Gln  
 1 5 10 15

Arg Ile Pro Gln Ser Val Arg Ile Leu Gly Ser Leu Val Ala Ile Leu  
 20 25 30

Leu Val Phe Leu Ile Thr Ala Ile Leu Val Lys Val Gln Leu Asp Ala  
 35 40 45

Leu Pro Phe Phe Val Ile Thr Met Ile Lys Ile Val Leu Ile Asn Ser  
 50 55 60

Phe Gly Ala Ile Leu Gln Gly Ser Leu Phe Gly Leu Ala Gly Leu Leu  
 65 70 75 80

Pro Ala Ser Xaa

<210> 396

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals stop translation

<400> 396

Met Lys Leu Ser Leu Phe Leu Ile Leu Ser Asp Val Phe Tyr Leu Gly  
 1 5 10 15

Ser Pro Xaa Thr Xaa  
 20

<210> 397  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals stop translation

<400> 397  
 Met Gly Thr Arg Arg Lys Gly Val Ala Trp Leu Ser Leu Ala Pro Leu  
   1                  5                  10                  15  
 Ile Thr Gly Leu Ala Pro Ala His Ile Thr Ala Val Xaa  
                   20                  25

<210> 398  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals stop translation

<400> 398  
 Met Lys Asp Leu Leu Gln Arg Asn Pro Trp Lys Asn Ser Leu Leu Leu  
   1                  5                  10                  15  
 Leu Gln Val Cys Gln Ala Phe Leu Val Cys Ser Leu Thr Gln Leu Ala  
                   20                  25                  30

Val Xaa

<210> 399  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 399  
 Met Ser Glu Ser His Lys Ile Trp Trp Cys Tyr Arg His Leu Ala Phe  
   1                  5                  10                  15  
 Pro Leu Leu Thr Leu Ile Leu Tyr Pro Ala Thr Leu Gly Arg Ser Val  
                   20                  25                  30



Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Xaa  
                   35                  40                  45

<210> 400

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals stop translation

<400> 400

Met Leu Asn Arg Ile Met Val Ala Ser Phe Gly Ala Val Leu Val Gln  
       1                  5                  10                  15

Val Cys Arg Gly Xaa Gly Gln Gly Xaa  
                   20                  25

<210> 401

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals stop translation

<400> 401

Met Gln Leu Leu Leu Leu Gly Leu Ile Arg Ser Gln Pro Ser Pro Pro  
       1                  5                  10                  15

Pro Ser Leu Cys Leu Met Leu Cys Pro Cys Leu Pro Cys Leu Arg Tyr  
                   20                  25                  30

Ser Pro Phe Val Pro Gln His Pro Cys Pro Leu Pro Leu Asp Leu Cys  
                   35                  40                  45

Leu Ala Gly Cys Ser Ser Leu Ser Val Gln Asp Lys Cys Ser Trp Pro  
       50                  55                  60

Tyr Pro Ile Xaa  
       65

<210> 402

<211> 85

<212> PRT

<213> Homo sapiens

&lt;400&gt; 402

Met Lys Asp Ser Leu Cys Arg Val Ser Phe Leu Lys Asn Gln Ile Phe  
 1 5 10 15

Leu Ser Tyr Ile Thr Leu Val Leu Ile Gly His Ala His Phe Ser Gly  
 20 25 30

Val Pro His Tyr Asn Val Ser Phe Val Leu Arg Ile Asn Leu Gln Lys  
 35 40 45

His Leu Lys Ile Thr Thr Ser Asn Gly Ile Glu Ser Lys Lys Thr Gly  
 50 55 60

Glu Arg Gly Glu Thr Met Phe Phe Arg Thr Arg Gly Ser Thr His Ala  
 65 70 75 80

Ser Ala Asp Ala Trp  
 85

&lt;210&gt; 403

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 403

Met Gly Gly Ser Leu Leu Pro Gln Val Ser Ala Ala Val Leu Xaa Leu  
 1 5 10 15

Asp Gly Leu Leu Leu Pro Gly Leu Lys Gly Cys Gly Pro Leu Arg Val  
 20 25 30

Ser Phe Pro Gln Ala Lys Phe Lys Ala Ala Ala Leu Cys Glu Ala Leu  
 35 40 45

Leu Ala Leu Gly Trp Arg Glu Asn Phe Lys Leu Phe Cys Ser Gln Gly  
 50 55 60

Arg Gly Met Gly Pro Gly Cys Arg Cys Pro His Ser Ala Asn Glu Ser  
 65 70 75 80

Phe Val

&lt;210&gt; 404

&lt;211&gt; 286

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 404

Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala

| 1   | 5   | 10  | 15  |
|---|-----|-----|-----|
| Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu | 20  | 25  | 30  |
| His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn | 35  | 40  | 45  |
| Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile | 50  | 55  | 60  |
| Ala Ile Ile Val Tyr Arg Leu Pro Trp Thr Trp Lys Cys Ser Lys Leu | 65  | 70  | 75  |
| Leu Met Lys Ser Ile His Ala Gly Leu Asn Ala Val Ala Ala Ile Leu | 85  | 90  | 95  |
| Ala Ile Ile Ser Val Val Ala Val Phe Glu Asn His Asn Val Asn Asn | 100 | 105 | 110 |
| Ile Ala Asn Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val | 115 | 120 | 125 |
| Ile Cys Tyr Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu | 130 | 135 | 140 |
| Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val | 145 | 150 | 155 |
| Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met | 165 | 170 | 175 |
| Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser | 180 | 185 | 190 |
| Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile | 195 | 200 | 205 |
| Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp | 210 | 215 | 220 |
| Lys Arg Pro Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly | 225 | 230 | 235 |
| Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn | 245 | 250 | 255 |
| Met Asp Lys Ser Asp Ser Glu Leu Asn Ser Glu Val Ala Ala Arg Lys | 260 | 265 | 270 |
| Arg Asn Leu Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met         | 275 | 280 | 285 |

210&gt; 405

211&gt; 154

212&gt; PRT

213&gt; Homo sapiens

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (154)  
 <223> Xaa equals stop translation

<400> 405  
 Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val  
 1 5 10 15  
 Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Gly Ala Ala  
 20 25 30

His Phe Tyr Leu His Thr Ser Phe Ser Arg Pro His Thr Gly Pro Pro  
35 40 45

Leu Pro Thr Pro Gly Pro Asp Arg Asp Arg Glu Leu Thr Ala Asp Ser  
50 55 60

Asp Val Asp Xaa Phe Leu Asp Xaa Phe Leu Ser Ala Gly Val Lys Gln  
65 70 75 80

Ser Asp Xaa Pro Arg Lys Glu Thr Glu Gln Pro Pro Ala Pro Gly Ser  
85 90 95

Met Glu Glu Ser Val Arg Xaa Tyr Asp Trp Ser Pro Arg Xaa Ala Arg  
100 105 110

Arg Thr Gln Thr Arg Ala Gly Ser Xaa Arg Xaa Gly Gly Xaa Cys Cys  
115 120 125

Gly Ala Ser Ala Pro Xaa Pro Ala Trp Pro Ser Pro Pro Arg Ser Ala  
130 135 140

His Ser Thr Thr Ser Pro Thr Arg Ser Xaa  
145 150

<210> 406

<211> 37

<212> PRT

<213> Homo sapiens

<400> 406

Met Leu Leu Leu Ile Val Leu Val Ala Asn Ile Leu Ser Met Ser Asn  
1 5 10 15

Met Ser Asn Ala Val Val Ser Asp Leu His Ile Leu Val His Leu Ile  
20 25 30

Ser His Lys Ala Asn  
35

<210> 407

<211> 60

<212> PRT

<213> Homo sapiens

<400> 407

Met Cys Ile His Val Phe Met Ser Val Leu Trp Val Leu Phe Leu Leu  
1 5 10 15

Asn Pro Leu Cys Thr Gly Leu Trp Pro Leu Val Asn Cys Phe Ser Val  
20 25 30

Leu Arg His Ala Asp Trp Val Leu Gly Ala Asp Tyr Lys Gly Glu Glu  
35 40 45

Leu Asn Arg His Gln Gly Pro Met Lys Pro Lys Asp  
50 55 60

<210> 408  
 <211> 447  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (447)  
 <223> Xaa equals stop translation

<400> 408

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Leu | Gly | Leu | Leu | Met | Ala | Ala | Cys | Phe | Thr | Phe | Cys | Leu | Ser | 1   | 5   | 10  | 15  |
| His | Gln | Asn | Leu | Lys | Glu | Phe | Ala | Leu | Thr | Asn | Pro | Glu | Lys | Ser | Ser | 20  | 25  | 30  |     |
| Thr | Lys | Glu | Thr | Glu | Arg | Lys | Glu | Thr | Lys | Ala | Glu | Glu | Glu | Leu | Asp | 35  | 40  | 45  |     |
| Ala | Glu | Val | Leu | Glu | Val | Phe | His | Pro | Thr | His | Glu | Trp | Gln | Ala | Leu | 50  | 55  | 60  |     |
| Gln | Pro | Gly | Gln | Ala | Val | Pro | Ala | Gly | Ser | His | Val | Arg | Leu | Asn | Leu | 65  | 70  | 75  | 80  |
| Gln | Thr | Gly | Glu | Arg | Glu | Ala | Lys | Leu | Gln | Tyr | Glu | Asp | Lys | Phe | Arg | 85  | 90  | 95  |     |
| Asn | Asn | Leu | Lys | Gly | Lys | Arg | Leu | Asp | Ile | Asn | Thr | Asn | Thr | Tyr | Thr | 100 | 105 | 110 |     |
| Ser | Gln | Asp | Leu | Lys | Ser | Ala | Leu | Ala | Lys | Phe | Lys | Glu | Gly | Ala | Glu | 115 | 120 | 125 |     |
| Met | Glu | Ser | Ser | Lys | Glu | Asp | Lys | Ala | Arg | Gln | Ala | Glu | Val | Lys | Arg | 130 | 135 | 140 |     |
| Leu | Phe | Arg | Pro | Ile | Glu | Glu | Leu | Lys | Lys | Asp | Phe | Asp | Glu | Leu | Asn | 145 | 150 | 155 | 160 |
| Val | Val | Ile | Glu | Thr | Asp | Met | Gln | Ile | Met | Val | Arg | Leu | Ile | Asn | Lys | 165 | 170 | 175 |     |
| Phe | Asn | Ser | Ser | Ser | Ser | Ser | Leu | Glu | Glu | Lys | Ile | Ala | Ala | Leu | Phe | 180 | 185 | 190 |     |
| Asp | Leu | Glu | Tyr | Tyr | Val | His | Gln | Met | Asp | Asn | Ala | Gln | Asp | Leu | Leu | 195 | 200 | 205 |     |
| Ser | Phe | Gly | Gly | Leu | Gln | Val | Val | Ile | Asn | Gly | Leu | Asn | Ser | Thr | Glu | 210 | 215 | 220 |     |
| Pro | Leu | Val | Lys | Glu | Tyr | Ala | Ala | Phe | Val | Leu | Gly | Ala | Ala | Phe | Ser | 225 | 230 | 235 | 240 |

Ser Asn Pro Lys Val Gln Val Glu Ala Ile Glu Gly Gly Ala Leu Gln  
245 250 255

Lys Leu Leu Val Ile Leu Ala Thr Glu Gln Pro Leu Thr Ala Lys Lys  
260 265 270

Lys Val Leu Phe Ala Leu Cys Ser Leu Leu Arg His Phe Pro Tyr Ala  
275 280 285

Gln Arg Gln Phe Leu Lys Leu Gly Gly Leu Gln Val Leu Arg Thr Leu  
290 295 300

Val Gln Glu Lys Gly Thr Glu Val Leu Ala Val Arg Val Val Thr Leu  
305 310 315 320

Leu Tyr Asp Leu Val Thr Glu Lys Met Phe Ala Glu Glu Glu Ala Glu  
325 330 335

Leu Thr Gln Glu Met Ser Pro Glu Lys Leu Gln Gln Tyr Arg Gln Val  
340 345 350

His Leu Leu Pro Gly Leu Trp Glu Gln Gly Trp Cys Glu Ile Thr Ala  
355 360 365

His Leu Leu Ala Leu Pro Glu His Asp Ala Arg Glu Lys Val Leu Gln  
370 375 380

Thr Leu Gly Val Leu Leu Thr Thr Cys Arg Asp Arg Tyr Arg Gln Asp  
385 390 395 400

Pro Gln Leu Gly Arg Thr Leu Ala Ser Leu Gln Ala Glu Tyr Gln Val  
405 410 415

Leu Ala Ser Leu Glu Leu Gln Asp Gly Glu Asp Glu Gly Tyr Phe Gln  
420 425 430

Glu Leu Leu Gly Ser Val Asn Ser Leu Leu Lys Glu Leu Arg Xaa  
435 440 445

<210> 409

<211> 64

<212> PRT

<213> Homo sapiens

<400> 409

Met Leu Tyr Ser Asp Leu Lys Leu Val Arg Cys His Asn Gly Pro Val  
1 5 10 15

His Val Ile Ser Val Tyr Thr Thr Pro Pro Asp Pro Ser Asn Pro Tyr  
20 25 30

Asn Thr Pro Pro Leu Phe Ala Ser Cys Met Val Ile Ser Tyr Val Thr  
35 40 45

Phe Thr Pro Val Ser Ala Asp Cys Phe Phe Asn Val Leu Val Cys Phe  
50 55 60

<210> 410  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals stop translation

<400> 410  
 Glu Leu Leu Phe Leu Leu Ile Ile Ile Leu Gly Glu Ser Leu Ser Asp  
           1                  5                  10                  15

Val Ile Leu Leu Ile Cys Phe Xaa  
                           20

<210> 411  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 411  
 Met Phe Tyr Trp Gly Gly Leu Ser Phe Tyr Phe Leu Leu Ser Ser Gly  
           1                  5                  10                  15

Val Gly Phe Tyr Cys Phe Leu Phe Gly Phe Gly Met Glu Ile Trp Ile  
                   20                  25                  30

Ala Ala Xaa  
                   35

<210> 412  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 412  
 Met Gly Lys Val Gly Trp Leu Met Val Gly Gly Val Ala Pro Gly Ile  
           1                  5                  10                  15

Arg Gly Gly Trp Gly Trp Thr Leu Gly Ile Met Val Gly Gly Ala Ile  
                   20                  25                  30

Ala His Cys Cys Cys Cys Leu Ile Arg  
           35                  40



<210> 413  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals stop translation

<400> 413  
 Met Lys Leu Ser Leu Leu Ile Leu Thr Leu Met Gln Arg Tyr Phe Arg  
           1                  5                  10                  15  
 Thr Ile Thr Asn Ser Leu Cys Lys Xaa  
                   20                  25

<210> 414  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals stop translation

<400> 414  
 Met Pro Ala Val Ser Gly Pro Gly Pro Leu Phe Cys Leu Leu Leu Leu  
           1                  5                  10                  15  
 Leu Leu Asp Pro His Ser Pro Glu Thr Gly Cys Pro Pro Leu Arg Arg  
                   20                  25                  30  
 Phe Glu Tyr Lys Leu Ser Phe Lys Gly Pro Arg Leu Ala Leu Pro Gly  
           35                  40                  45  
 Ala Gly Ile Pro Phe Trp Ser His His Gly Gly Glu Gly Gln Gly Trp  
           50                  55                  60  
 Gly Pro Leu Cys Pro Gly Ser Leu Lys Val Leu Glu Gly Leu Xaa  
           65                  70                  75

<210> 415  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 415

Met His Tyr Leu Leu Lys Glu Cys Asp Ile Asp Thr Asp Ala Tyr Phe  
 1 5 10 15

Phe Phe Phe Xaa Leu Leu Val Leu Phe Leu Pro Xaa Lys Tyr Ser Pro  
 20 25 30

Pro Phe Tyr Ser Ile Val Leu Phe Arg Trp Asn Asp Ser Tyr Lys Ile  
 35 40 45

Ser His Tyr  
 50

&lt;210&gt; 416

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 416

Met Ala Ala Leu Thr Ser His Leu Gln Asn Gln Ser Asn Asn Ser Asn  
 1 5 10 15

Trp Asn Leu Arg Thr Arg Ser Lys Cys Lys Lys Asp Val Phe Met-Pro  
 20 25 30

Pro Ser Ser Ser Ser Glu Leu Gln Glu Ser Arg Gly Leu Ser Asn Phe  
 35 40 45

Thr Ser Thr His Leu Leu Leu Lys Glu Asp Glu Gly Val Asp Asp Val  
 50 55 60

Asn Phe Arg Lys Val Arg Lys Pro Lys Gly Lys Val Thr Ile Leu Lys  
 65 70 75 80

Gly Ile Pro Ile Lys Lys Thr Lys Lys Gly Cys Arg Lys Ser Cys Ser  
 85 90 95

Gly Phe Val Xaa Ser Asp Ser Lys Arg Glu Ser Val Cys Asn Lys Ala  
 100 105 110

Asp Ala Glu Ser Glu Pro Val Ala Gln Lys Ser Gln Leu Asp Arg Thr  
 115 120 125

Val Cys Ile Ser Asp Ala Gly Ala Cys Gly Glu Thr Leu Ser Val Thr  
 130 135 140

Ser Glu Glu Asn Ser Leu Val Lys Lys Lys Glu Arg Ser Leu Ser Ser  
 145 150 155 160

Gly Ser Asn Phe Cys Ser Glu Gln Lys Thr Ser Gly Ile Ile Asn Lys  
                   165                  170                  175

Phe Cys Ser Ala Lys Asp Ser Glu His Asn Glu Lys Tyr Glu Asp Thr  
                   180                  185                  190

Phe Leu Glu Ser Glu Glu Ile Gly Thr Lys Val Glu Val Val Glu Arg  
                   195                  200                  205

Lys Glu His Leu His Thr Asp Ile Leu Lys Arg Gly Ser Glu Met Asp  
                   210                  215                  220

Asn Asn Cys Ser Pro Thr Arg Lys Asp Phe Thr Glu Asp Thr Ile Pro  
                   225                  230                  235                  240

Arg Asn Thr Asp Arg Lys Lys Glu Asn Lys Pro Val Phe Phe Gln Gln  
                   245                  250                  255

Ile

<210> 417

<211> 424

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 417

Met Glu Lys Gln Cys Cys Ser His Pro Val Ile Cys Ser Leu Ser Thr  
   1                  5                  10                  15

Met Tyr Thr Phe Leu Leu Gly Ala Ile Phe Ile Ala Leu Ser Ser Ser  
                   20                  25                  30

Arg Ile Leu Leu Val Lys Tyr Ser Ala Asn Glu Glu Asn Lys Tyr Asp  
                   35                  40                  45

Tyr Leu Pro Thr Thr Val Asn Val Cys Ser Glu Leu Val Lys Leu Val  
                   50                  55                  60

Phe Cys Val Leu Val Ser Phe Cys Val Ile Lys Lys Asp His Gln Ser  
                   65                  70                  75                  80

Arg Asn Leu Lys Tyr Ala Ser Trp Lys Glu Phe Ser Asp Phe Met Lys  
                   85                  90                  95

Trp Ser Ile Pro Ala Phe Leu Tyr Phe Leu Asp Asn Leu Ile Val Phe  
                   100                  105                  110

Tyr Val Leu Ser Tyr Leu Gln Pro Ala Met Ala Val Ile Phe Ser Asn  
 115 120 125  
 Phe Ser Ile Ile Thr Thr Ala Leu Leu Phe Arg Ile Val Leu Lys Xaa  
 130 135 140  
 Arg Leu Asn Trp Ile Gln Trp Ala Ser Leu Leu Thr Leu Phe Leu Ser  
 145 150 155 160  
 Ile Val Ala Leu Thr Ala Gly Thr Lys Thr Leu Gln His Asn Leu Ala  
 165 170 175  
 Gly Arg Gly Phe His His Asp Ala Phe Phe Ser Pro Ser Asn Ser Cys  
 180 185 190  
 Leu Leu Phe Arg Asn Glu Cys Pro Arg Lys Asp Asn Cys Thr Ala Lys  
 195 200 205  
 Glu Trp Thr Phe Pro Glu Ala Lys Trp Asn Thr Thr Ala Arg Val Phe  
 210 215 220  
 Ser His Ile Arg Leu Gly Met Gly His Val Leu Ile Ile Val Gln Cys  
 225 230 235 240  
 Phe Ile Ser Ser Met Ala Asn Ile Tyr Asn Glu Lys Ile Leu Lys Glu  
 245 250 255  
 Gly Asn Gln Leu Thr Glu Xaa Ile Phe Ile Gln Asn Ser Lys Leu Tyr  
 260 265 270  
 Phe Phe Gly Ile Leu Phe Asn Gly Leu Thr Leu Gly Leu Gln Arg Ser  
 275 280 285  
 Asn Arg Asp Gln Ile Lys Asn Cys Gly Phe Phe Tyr Gly His Ser Ala  
 290 295 300  
 Phe Ser Val Ala Leu Ile Phe Val Thr Ala Phe Gln Gly Leu Ser Val  
 305 310 315 320  
 Ala Phe Ile Leu Lys Phe Leu Asp Asn Met Phe His Val Leu Met Ala  
 325 330 335  
 Gln Val Thr Thr Val Ile Ile Thr Thr Val Ser Val Leu Val Phe Asp  
 340 345 350  
 Phe Arg Pro Ser Leu Glu Phe Phe Leu Glu Ala Pro Ser Val Leu Leu  
 355 360 365  
 Ser Ile Phe Ile Tyr Asn Ala Ser Lys Pro Gln Val Pro Glu Tyr Ala  
 370 375 380  
 Pro Arg Gln Glu Arg Ile Arg Asp Leu Ser Gly Asn Leu Trp Glu Arg  
 385 390 395 400  
 Ser Ser Gly Asp Gly Glu Glu Leu Glu Arg Leu Thr Lys Pro Lys Ser  
 405 410 415

Asp Glu Ser Asp Glu Asp Thr Phe  
420

<210> 418  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals stop translation

<400> 418  
Met Trp Gly Gln Gly Ser Gln Lys Ser His Phe Ser Asp Leu Val Phe  
1 5 10 15

Gly Val Arg Glu Leu Cys Ala Gln Pro Ser Asp Pro Gly Ser Pro His  
20 25 30

Xaa

<210> 419  
<211> 80  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals stop translation

<400> 419  
Met Val Gln His Ile Gln Pro Ala Ala Leu Ser Leu Leu Ala Gln Trp  
1 5 10 15

Ser Thr Leu Val Gln Glu Leu Glu Ala Ala Leu Gln Leu Ala Phe Tyr  
20 25 30

Pro Asp Ala Val Glu Glu Trp Leu Glu Glu Asn Val His Pro Ser Leu  
35 40 45

Gln Arg Leu Gln Xaa Leu Leu Gln Asp Leu Ser Glu Val Ser Ala Pro  
50 55 60

Pro Leu Pro Pro Thr Ser Pro Gly Arg Asp Val Ala Gln Asp Pro Xaa  
65 70 75 80

<210> 420

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals stop translation

<400> 420

Met Leu Asn Gln Gly Tyr Ile Arg Lys Ile Ile Leu Ile Ile Ile Leu  
1 5 10 15

Gly Ser Phe Ser Ser Pro Lys Lys Ala Ile Leu Met Gly Phe Gln Asn  
20 25 30

Gln Lys Lys Ala Leu Asn Glu Glu Gln Thr Thr Gly Val Pro Met Ser  
35 40 45

Ile Ser Gly Lys Leu Arg Pro Ser Arg Ser Leu Asp Phe Val Gln Pro  
50 55 60

Pro Arg Phe Gln Ser Gln Gln Pro Ser Ala Val Val Asp Arg Arg Gly  
65 70 75 80

Phe Xaa Xaa Lys Ala Ala Arg Gly Gln Glu Phe Ser Glu Ser Xaa  
85 90 95

<210> 421

<211> 257

<212> PRT

<213> Homo sapiens

<400> 421

Met Arg Gly Pro Ala Gln Ala Lys Leu Leu Pro Gly Ser Ala Ile Gln  
1 5 10 15

Ala Leu Val Gly Leu Ala Arg Pro Leu Val Leu Ala Leu Leu Val  
20 25 30

Ser Ala Ala Leu Ser Ser Val Val Ser Arg Thr Asp Ser Pro Ser Pro  
35 40 45

Thr Val Leu Asn Ser His Ile Ser Thr Pro Asn Val Asn Ala Leu Thr

| 50  | 55  | 60          |
|---|-----|-------------|
| His Glu Asn Gln Thr Lys Pro Ser Ile Ser Gln Ile Ser Thr Thr Leu |     |             |
| 65  | 70  | 75 80       |
| Pro Pro Thr Thr Ser Thr Lys Lys Ser Gly Gly Ala Ser Val Val Pro |     |             |
|   | 85  | 90 95       |
| His Pro Ser Pro Thr Pro Leu Ser Gln Glu Glu Ala Asp Asn Asn Glu |     |             |
|   | 100 | 105 110     |
| Asp Pro Ser Ile Glu Glu Glu Asp Leu Leu Met Leu Asn Ser Ser Pro |     |             |
|   | 115 | 120 125     |
| Ser Thr Ala Lys Asp Thr Leu Asp Asn Gly Asp Tyr Gly Glu Pro Asp |     |             |
|   | 130 | 135 140     |
| Tyr Asp Trp Thr Thr Gly Pro Arg Asp Asp Asp Glu Ser Asp Asp Thr |     |             |
|   | 145 | 150 155 160 |
| Leu Glu Glu Asn Arg Gly Tyr Met Glu Ile Glu Gln Ser Val Lys Ser |     |             |
|   | 165 | 170 175     |
| Phe Lys Met Pro Ser Ser Asn Ile Glu Glu Glu Asp Ser His Phe Phe |     |             |
|   | 180 | 185 190     |
| Phe His Leu Ile Ile Phe Ala Phe Cys Ile Ala Val Val Tyr Ile Thr |     |             |
|   | 195 | 200 205     |
| Tyr His Asn Lys Arg Lys Ile Phe Leu Leu Val Gln Ser Arg Lys Trp |     |             |
|   | 210 | 215 220     |
| Arg Asp Gly Leu Cys Ser Lys Thr Val Glu Tyr His Arg Leu Asp Gln |     |             |
|   | 225 | 230 235 240 |
| Asn Val Asn Glu Ala Met Pro Ser Leu Lys Ile Thr Asn Asp Tyr Ile |     |             |
|   | 245 | 250 255     |

Phe

<210> 422  
 <211> 704  
 <212> PRT  
 <213> Homo sapiens

<400> 422  
 Met Trp Tyr Arg Leu Arg Leu Leu Lys Pro Gln Pro Asn Ile Ile Pro  
 1 5 10 15  
 Thr Val Lys Lys Ile Val Leu Leu Ala Gly Trp Ala Leu Phe Leu Phe  
 20 25 30  
 Leu Ala Tyr Lys Val Ser Lys Thr Asp Arg Glu Tyr Gln Glu Tyr Asn  
 35 40 45  
 Pro Tyr Glu Val Leu Asn Leu Asp Pro Gly Ala Thr Val Ala Glu Ile

| 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Gln | Tyr | Arg | Leu | Leu | Ser | Leu | Lys | Tyr | His | Pro | Asp | Lys | Gly |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Gly | Asp | Glu | Val | Met | Phe | Met | Arg | Ile | Ala | Lys | Ala | Tyr | Ala | Ala | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Asp | Glu | Glu | Ser | Arg | Lys | Asn | Trp | Glu | Glu | Phe | Gly | Asn | Pro | Asp |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gly | Pro | Gln | Ala | Thr | Ser | Phe | Gly | Ile | Ala | Leu | Pro | Ala | Trp | Ile | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asp | Gln | Lys | Asn | Ser | Ile | Leu | Val | Leu | Leu | Val | Tyr | Gly | Leu | Ala | Phe |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Met | Val | Ile | Leu | Pro | Val | Val | Val | Gly | Ser | Trp | Trp | Tyr | Arg | Ser | Ile |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Arg | Tyr | Ser | Gly | Asp | Gln | Ile | Leu | Ile | Arg | Thr | Thr | Gln | Ile | Tyr | Thr |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Tyr | Phe | Val | Tyr | Lys | Thr | Arg | Asn | Met | Asp | Met | Lys | Arg | Leu | Ile | Met |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Val | Leu | Ala | Gly | Ala | Ser | Glu | Phe | Asp | Pro | Gln | Tyr | Asn | Lys | Asp | Ala |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Thr | Ser | Arg | Pro | Thr | Asp | Asn | Ile | Leu | Ile | Pro | Gln | Leu | Ile | Arg | Glu |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ile | Gly | Ser | Ile | Asn | Leu | Lys | Lys | Asn | Glu | Pro | Pro | Leu | Thr | Cys | Pro |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Tyr | Ser | Leu | Lys | Ala | Arg | Val | Leu | Leu | Leu | Ser | His | Leu | Ala | Arg | Met |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |
| Lys | Ile | Pro | Glu | Thr | Leu | Glu | Glu | Asp | Gln | Gln | Phe | Met | Leu | Lys | Lys |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Cys | Pro | Ala | Leu | Leu | Gln | Glu | Met | Val | Asn | Val | Ile | Cys | Gln | Leu | Ile |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Val | Met | Ala | Arg | Asn | Arg | Glu | Glu | Arg | Glu | Phe | Arg | Ala | Pro | Thr | Leu |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ala | Ser | Leu | Glu | Asn | Cys | Met | Lys | Leu | Ser | Gln | Met | Ala | Val | Gln | Gly |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Gln | Gln | Phe | Lys | Ser | Pro | Leu | Leu | Gln | Leu | Pro | His | Ile | Glu | Glu |
|     |     |     |     | 325 |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Asp | Asn | Leu | Arg | Arg | Val | Ser | Asn | His | Lys | Lys | Tyr | Lys | Ile | Lys | Thr |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ile | Gln | Asp | Leu | Val | Ser | Leu | Lys | Glu | Ser | Asp | Arg | His | Thr | Leu | Leu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |



His Phe Leu Glu Asp Glu Lys Tyr Glu Glu Val Met Ala Val Leu Gly  
 370 375 380  
 Ser Phe Pro Tyr Val Thr Met Asp Ile Lys Ser Gln Val Leu Asp Asp  
 385 390 395 400  
 Glu Asp Ser Asn Asn Ile Thr Val Gly Ser Leu Val Thr Val Leu Val  
 405 410 415  
 Lys Leu Thr Arg Gln Thr Met Ala Glu Val Phe Glu Lys Glu Gln Ser  
 420 425 430  
 Ile Cys Ala Ala Glu Glu Gln Pro Ala Glu Asp Gly Gln Gly Glu Thr  
 435 440 445  
 Asn Lys Asn Arg Thr Lys Gly Gly Trp Gln Gln Lys Ser Lys Gly Pro  
 450 455 460  
 Lys Lys Thr Ala Lys Ser Lys Lys Lys Lys Pro Leu Lys Lys Lys Pro  
 465 470 475 480  
 Thr Pro Val Leu Leu Pro Gln Ser Lys Gln Gln Lys Gln Lys Gln Ala  
 485 490 495  
 Asn Gly Val Val Gly Asn Glu Ala Ala Val Lys Glu Asp Glu Glu Glu  
 500 505 510  
 Val Ser Asp Lys Gly Ser Asp Ser Glu Glu Glu Glu Thr Asn Arg Asp  
 515 520 525  
 Ser Gln Ser Glu Lys Asp Asp Gly Ser Asp Arg Asp Ser Asp Arg Glu  
 530 535 540  
 Gln Asp Glu Lys Gln Asn Lys Asp Asp Glu Ala Glu Trp Gln Glu Leu  
 545 550 555 560  
 Gln Gln Ser Ile Gln Arg Lys Glu Arg Ala Leu Leu Glu Thr Lys Ser  
 565 570 575  
 Lys Ile Thr His Pro Val Tyr Ser Leu Tyr Phe Pro Glu Glu Lys Gln  
 580 585 590  
 Glu Trp Trp Trp Leu Tyr Ile Ala Asp Arg Lys Glu Gln Thr Leu Ile  
 595 600 605  
 Ser Met Pro Tyr His Val Cys Thr Leu Lys Asp Thr Glu Glu Val Glu  
 610 615 620  
 Leu Lys Phe Pro Ala Pro Gly Lys Pro Gly Asn Tyr Gln Tyr Thr Val  
 625 630 635 640  
 Phe Leu Arg Ser Asp Ser Tyr Met Gly Leu Asp Gln Ile Lys Pro Leu  
 645 650 655  
 Lys Leu Glu Val His Glu Ala Lys Pro Val Pro Glu Asn His Pro Gln  
 660 665 670

Trp Asp Thr Ala Ile Glu Gly Asp Glu Asp Gln Glu Asp Ser Glu Gly  
675 680 685

Phe Glu Asp Ser Phe Glu Glu Glu Glu Glu Glu Glu Asp Asp Asp  
690 695 700

<210> 423

<211> 190

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 423

Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser  
1 5 10 15

Val Leu Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val  
20 25 30

Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Leu Gly Pro Pro Asp Pro  
35 40 45

Arg Pro Arg Thr Leu Pro Pro Leu Pro Pro Gly Pro Thr Pro Ala Gln  
50 55 60

Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Pro Arg Gly Ser Glu  
65 70 75 80

Gly Gly Asn Gly Ser Asn Pro Val Ala Gly Leu Glu Thr Asp Asp His  
85 90 95

Gly Gly Lys Ala Gly Glu Gly Ser Val Gly Gly Gly Leu Ala Val Ser  
100 105 110

Pro Asn Pro Gly Asp Lys Pro Met Thr Gln Arg Ala Leu Thr Val Leu  
115 120 125

Met Val Val Ser Gly Ala Val Leu Val Tyr Phe Val Val Arg Thr Val  
130 135 140

Arg Met Arg Arg Arg Asn Arg Lys Thr Arg Arg Tyr Gly Val Leu Asp  
145 150 155 160

Thr Asn Ile Glu Asn Met Glu Leu Thr Pro Leu Glu Gln Asp Asp Glu  
165 170 175

Asp Asp Asp Asn Thr Leu Phe Asp Ala Asn His Pro Arg Arg  
 180 185 190

<210> 424

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (179)

<223> Xaa equals stop translation

<400> 424

Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile  
 1 5 10 15

Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser  
 20 25 30

Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp  
 35 40 45

Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro  
 50 55 60

Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly  
 65 70 75 80

Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys  
 85 90 95

Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser  
 100 105 110

Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly  
 115 120 125

Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys  
 130 135 140

Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile  
 145 150 155 160

Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His  
 165 170 175

Cys Arg Xaa

<210> 425

<211> 40

<212> PRT

<213> Homo sapiens

&lt;400&gt; 425

Met Phe Lys Cys Leu Gln Thr Thr Phe Leu Phe Ile Leu Asp Phe Thr  
 1 5 10 15

Trp Glu Ser Lys Val Gln Phe His Lys Ala Ser Val Tyr Leu Ser Leu  
 20 25 30

Ser Ile Tyr Ile Asp Cys His Ala  
 35 40

&lt;210&gt; 426

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 426

Met Leu Ala Gly Lys Leu Ile Pro Val His Gln Val Arg Gly Leu Lys  
 1 5 10 15

Glu Lys Ile Val Arg Ser Phe Glu Val Ser Pro Asp Gly Ser Phe Leu  
 20 25 30

Leu Ile Asn Gly Ile Ala Gly Tyr Leu His Leu Leu Ala Met Lys Thr  
 35 40 45

Lys Glu Leu Ile Gly Ser Met Lys Ile Asn Gly Arg Val Ala Ala Ser  
 50 55 60

Thr Phe Ser Ser Asp Ser Lys Lys Val Tyr Ala Ser Ser Gly Asp Gly  
 65 70 75 80

Glu Val Tyr Val Trp Asp Val Asn Ser Arg Lys Cys Leu Asn Arg Phe  
 85 90 95

Val Asp Glu Gly Ser Leu Tyr Gly Leu Ser Ile Ala Thr Ser Arg Asn  
 100 105 110

Gly Gln Tyr Val Ala Cys Gly Ser Asn Cys Gly Val Val Asn Ile Tyr  
 115 120 125

Asn Gln Asp Ser Cys Leu Gln Glu Thr Asn Pro Lys Pro Ile Lys Ala  
 130 135 140

Ile Met Asn Leu Val Thr Gly Val Thr Ser Leu Thr Phe Asn Pro Thr  
 145 150 155 160

Thr Glu Ile Leu Ala Ile Ala Ser Glu Lys Met Lys Glu Ala Val Arg  
 165 170 175

Leu Val His Leu Pro Ser Cys Thr Val Phe Ser Asn Phe Pro Val Ile  
 180 185 190

Lys Asn Lys Asn Ile Ser His Val His Thr Met Asp Phe Ser Pro Arg  
 195 200 205

Ser Gly Tyr Phe Ala Leu Gly Asn Glu Lys Gly Lys Ala Leu Met Tyr  
 210 215 220

Arg Leu His His Tyr Ser Asp Phe  
225 230

<210> 427

<211> 250

<212> PRT

<213> Homo sapiens

<400> 427

Met Arg Ile Leu Gln Leu Ile Leu Leu Ala Leu Ala Thr Gly Leu Val  
1 5 10 15

Gly Gly Glu Thr Arg Ile Ile Lys Gly Phe Glu Cys Lys Pro His Ser  
20 25 30

Gln Pro Trp Gln Ala Ala Leu Phe Glu Lys Thr Arg Leu Leu Cys Gly  
35 40 45

Ala Thr Leu Ile Ala Pro Arg Trp Leu Leu Thr Ala Ala His Cys Leu  
50 55 60

Lys Pro Arg Tyr Ile Val His Leu Gly Gln His Asn Leu Gln Lys Glu  
65 70 75 80

Glu Gly Cys Glu Gln Thr Arg Thr Ala Thr Glu Ser Phe Pro His Pro  
85 90 95

Gly Phe Asn Asn Ser Leu Pro Asn Lys Asp His Arg Asn Asp Ile Met  
100 105 110

Leu Val Lys Met Ala Ser Pro Val Ser Ile Thr Trp Ala Val Arg Pro  
115 120 125

Leu Thr Leu Ser Ser Arg Cys Val Thr Ala Gly Thr Ser Cys Leu Ile  
130 135 140

Ser Gly Trp Gly Ser Thr Ser Ser Pro Gln Leu Arg Leu Pro His Thr  
145 150 155 160

Leu Arg Cys Ala Asn Ile Thr Ile Ile Glu His Gln Lys Cys Glu Asn  
165 170 175

Ala Tyr Pro Gly Asn Ile Thr Asp Thr Met Val Cys Ala Ser Val Gln  
180 185 190

Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val  
195 200 205

Cys Asn Gln Ser Leu Gln Gly Ile Ile Ser Trp Gly Gln Asp Pro Cys  
210 215 220

Ala Ile Thr Arg Lys Pro Gly Val Tyr Thr Lys Val Cys Lys Tyr Val  
225 230 235 240

Asp Trp Ile Gln Glu Thr Met Lys Asn Asn  
245 250

&lt;210&gt; 428

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 428

Met Trp Thr Lys Asn Asp Lys Leu Lys Lys Phe Phe Phe Leu Arg Tyr  
 1 5 10 15

Leu Gln Asn Met Val Tyr Phe Tyr Val Glu Lys Lys Ser Tyr Glu Gly  
 20 25 30

Ser Cys Tyr Phe Lys Arg Lys Phe Ile Lys Ser Pro Arg Gly Met Lys  
 35 40 45

Met Thr Ala Cys Phe Ser Ile Ile Leu Ala  
 50 55

&lt;210&gt; 429

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (117)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (219)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 429

Met Ala Val Val Leu Leu Ala Asn Leu Ala Gln Gly Asp Ser Leu Ala  
 1 5 10 15

Ala Arg Ala Ile Ala Val Gln Lys Gly Ser Ile Gly Asn Leu Leu Gly  
 20 25 30

Phe Leu Glu Asp Ser Leu Ala Ala Thr Gln Phe Gln Gln Ser Gln Ala  
 35 40 45

Ser Leu Leu His Met Gln Asn Pro Pro Phe Glu Pro Xaa Ser Val Asp  
 50 55 60

Met Met Arg Arg Ala Ala Arg Ala Leu Leu Ala Leu Ala Lys Val Asp  
65 70 75 80

Glu Asn His Ser Glu Phe Thr Leu Tyr Glu Ser Arg Leu Leu Asp Ile  
85 90 95

Ser Val Ser Pro Leu Met Asn Ser Xaa Val Ser Gln Val Ile Cys Asp  
100 105 110

Val Leu Phe Leu Xaa Trp Pro Val Met Thr Ala Val Gly His Leu Pro  
115 120 125

Pro Pro Cys Val Cys Ala Cys Val Glu Asn Leu Glu Thr Asp Cys Cys  
130 135 140

Pro Leu Phe Met Gln Asn His Leu Arg Ile Gln Phe Thr Leu Cys Cys  
145 150 155 160

Pro Ala Ser Pro Leu Gly Lys Ser Leu Ser Cys Phe Ser Leu Leu Leu  
165 170 175

Pro Pro Pro Leu Pro Pro Ser Pro His Ala Phe Leu Phe Leu Val Leu  
180 185 190

Thr Leu Leu Pro Ser Gly Pro Tyr Pro Thr Leu Phe Glu Lys Thr Lys  
195 200 205

Leu Cys Leu His Arg Arg Leu Phe Leu Phe Xaa  
210 215

<210> 430

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 430

Met Leu Pro Asp Glu Ser Phe Gly Leu Leu Leu Ser Ile Pro Ser Leu  
1 5 10 15

Thr Pro Ser Ala Ala Ala Pro Ser Phe Cys Val His Leu Met Gln Ala  
20 25 30

Ser Arg Ser Ser Lys Arg Ala Ser His Val Pro Val His Leu Leu Trp  
35 40 45

Gly Asp Xaa  
50

<210> 431

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals stop translation

<400> 431

Met Arg Pro Gly Ser Phe Ser Phe Ile Ala Phe Leu Ala Thr Glu Val  
1 5 10 15

Ser Ser Cys Phe Pro Gly Arg Pro Asp Cys Xaa Thr Gly Met Trp Leu  
20 25 30

Leu Gln Leu Gln Lys Lys Gln Arg Thr Leu Leu Ala Met Ala Pro Arg  
35 40 45

Arg Xaa  
50

<210> 432

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals stop translation

<400> 432

Asp Arg Pro Cys Pro Ser Ser Leu Trp Lys Val Phe Pro Leu Leu Leu  
1 5 10 15

Leu Leu Met Arg Leu Phe Pro Leu Pro Val Pro Gly Asn Gln Arg Ala  
20 25 30



Xaa Leu Pro His Pro Phe Xaa Ala Pro Arg Leu Pro Cys Leu Leu Cys  
 35 40 45

Leu Cys Thr Gln Gln Phe Xaa Val Cys Ser His Tyr Leu Pro Ala Gly  
 50 55 60

Tyr Arg Val Asn Ser Xaa  
 65 70

<210> 433

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals stop translation

<400> 433

Met His Glu Lys Ala Trp Asn Leu Ile Leu Leu Trp Trp Leu Ser Leu  
 1 5 10 15

Asp Leu Leu Gly Val Ala Lys Thr Ala Met Trp Ala Gln Trp Cys Gly  
 20 25 30

Leu Asn Asp His Lys Gly Lys Xaa  
 35 40

<210> 434

<211> 104

<212> PRT

<213> Homo sapiens

<400> 434

Met Ala Phe Val Leu Leu Phe Cys Phe Val Gly Leu Gln Ser Ser Arg  
 1 5 10 15

Ala Gly Pro Tyr Ser Glu Leu Val Leu Cys Gln Thr Pro Ala Ser Ala  
 20 25 30

Pro Asp Pro Val Ser Thr Leu Cys Val Leu Glu Glu Glu Pro Leu Asp  
 35 40 45

Ala Tyr Pro Asp Ser Pro Ser Ala Cys Leu Val Leu Asn Trp Glu Glu  
 50 55 60

Pro Cys Asn Asn Gly Ser Glu Ile Leu Ala Tyr Thr Ile Asp Leu Gly  
 65 70 75 80

Asp Thr Ser Ile Thr Val Gly Asn Thr Thr Met His Val Met Lys Asp  
 85 90 95

Leu Leu Pro Glu Thr Thr Tyr Arg  
 100

<210> 435  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals stop translation

<400> 435  
 Met Phe Ser Leu Leu Trp Leu Val Cys Val Pro Ser Asn Ser Ser Val  
   1                  5                  10                  15  
 Ala Asn Val Thr Ala Ser Arg Gly Gly Val Phe Lys Arg Ser Leu Gly  
                   20                  25                  30  
 His Glu Gly Phe Ser Xaa  
                   35

<210> 436  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 436  
 Lys Trp Leu Leu Phe Ile Phe Leu Leu Cys Leu Gln Leu Val Asn Ala  
   1                  5                  10                  15  
 Leu Leu Ser Leu Phe Gln Glu Arg Phe Val His Cys Pro Ala Arg Phe  
                   20                  25                  30  
 Val Ser Xaa  
                   35

<210> 437  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals stop translation

<400> 437  
 Met Leu Leu Phe Leu Ser Ile Thr Asn Ser Leu Ser Phe Ile Ser Val  
   1                  5                  10                  15

Asp Lys Pro Phe Gly Gln Ser Glu Asp Val Cys Pro Val Ile Ser Xaa  
 20 25 30

<210> 438  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals stop translation

<400> 438  
 Met Glu Phe Leu Phe Asn Lys Thr Gly Trp Ala Phe Ala Ala Leu Cys  
 1 5 10 15

Phe Val Leu Ala Met Thr Ser Gly Gln Met Trp Asn His Ile Arg Gly  
 20 25 30

Pro Pro Tyr Ala His Lys Asn Pro His Thr Gly His Val Asn Tyr Ile  
 35 40 45

His Gly Ser Ser Gln Ala Gln Phe Val Ala Glu Thr His Ile Val Leu  
 50 55 60

Leu Phe Asn Gly Gly Val Thr Leu Gly Met Val Leu Leu Cys Glu Ala  
 65 70 75 80

Ala Thr Ser Asp Met Asp Ile Gly Lys Arg Lys Ile Met Cys Val Ala  
 85 90 95

Gly Ile Gly Leu Val Val Leu Phe Phe Ser Trp Met Leu Ser Ile Phe  
 100 105 110

Arg Ser Lys Tyr His Gly Tyr Pro Tyr Ser Phe Leu Met Ser Xaa  
 115 120 125

<210> 439  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals stop translation

&lt;400&gt; 439

Met Thr Trp His Ser Arg Glu Ser Phe Xaa Leu Leu Arg Val Val Ala  
 1 5 10 15

Pro Ser Gln Ala Pro Gly Met Gln Val Ser Pro Ser Gln Arg Ala Trp  
 20 25 30

Arg Arg Pro Leu His Arg Cys His Val Ala Ala Pro Arg Pro His His  
 35 40 45

Phe Ala Phe Phe Arg Asn Pro Phe Ser Trp Ser Phe Ile Lys Leu Leu  
 50 55 60

Tyr Arg Tyr Leu Xaa  
 65

&lt;210&gt; 440

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 440

Met Gly Leu Lys Leu Asn Gly Arg Tyr Ile Ser Leu Ile Leu Ala Val  
 1 5 10 15

Gln Ile Ala Tyr Leu Val Gln Ala Val Arg Ala Ala Gly Lys Cys Asp  
 20 25 30

Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp Thr  
 35 40 45

Trp Pro Thr Thr Arg Ser Leu Gly Arg Gln Asp Glu His Gln Asp Arg  
 50 55 60

Val His Ile Leu Gly Gly Phe Pro Gln Leu His Gly His Ser Pro Tyr  
 65 70 75 80

Gly Leu Pro Gly Arg Gly Glu Arg Tyr Val Gly Xaa  
 85 90

&lt;210&gt; 441

&lt;211&gt; 380

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (264)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (380)

<223> Xaa equals stop translation

<400> 441

Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp Ser  
1 5 10 15

Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro Pro Gln  
20 25 30

Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala Arg Val Leu  
35 40 45

Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu Gly Lys Met Ala  
50 55 60

Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln Arg Met Pro Ala Ile  
65 70 75 80

Pro Val Asn Ile His Ser Met Asn Phe Thr Trp Gln Ala Ala Gly Gln  
85 90 95

Ala Glu Tyr Phe Tyr Glu Phe Leu Ser Leu Arg Ser Leu Asp Lys Gly  
100 105 110

Ile Met Ala Asp Pro Thr Val Asn Val Pro Leu Leu Gly Thr Val Pro  
115 120 125

His Lys Ala Ser Val Val Gln Val Gly Phe Pro Cys Leu Gly Lys Gln  
130 135 140

Asp Gly Val Ala Ala Phe Glu Val Asp Val Ile Val Met Asn Ser Glu  
145 150 155 160

Gly Asn Thr Ile Leu Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr  
165 170 175

Cys Gln Gln Ala Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys  
180 185 190

Asn Glu Arg Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His  
195 200 205

Cys Glu Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys  
210 215 220

Val Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn  
225 230 235 240

Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr Cys  
245 250 255

Phe Tyr Pro Gly Lys Cys Ile Xaa Pro Pro Gly Leu Glu Gly Glu Gln  
                   260                  265                  270

Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly Gly Lys Cys  
                   275                  280                  285

Ile Gly Lys Ser Lys Cys Lys Xaa Ser Lys Gly Tyr Gln Gly Asp Leu  
                   290                  295                  300

Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly Ala His Gly Thr Cys  
                   305                  310                  315                  320

His Glu Pro Asn Lys Cys Gln Cys Gln Glu Gly Trp His Gly Arg His  
                   325                  330                  335

Cys Asn Lys Arg Tyr Glu Ala Ser Leu Ile His Ala Leu Arg Pro Ala  
                   340                  345                  350

Gly Ala Gln Leu Arg Gln His Thr Pro Ser Leu Lys Lys Ala Glu Glu  
                   355                  360                  365

Arg Arg Asp Pro Pro Glu Ser Asn Tyr Ile Trp Xaa  
                   370                  375                  380

<210> 442

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals stop translation

<400> 442

Met Thr Ser Asn Leu Leu Leu Leu Thr Leu Leu Leu Lys Asp Thr Leu  
           1                  5                  10                  15

Xaa Leu Ala Lys Xaa Asn Xaa Xaa  
                   20

<210> 443  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 443  
 Met Arg His His Thr Gln Leu Asn Phe Ile Phe Leu Val Glu Met Val  
           1                  5                  10                  15  
 Phe Leu His Val Gly Gln Ala Gly Leu Lys Leu Pro Thr Ser Gly Asp  
                   20                  25                  30  
 Xaa Ala Cys Phe Gly Leu Pro Lys Val Leu Gly Leu Gln Ala Xaa  
           35                  40                  45

<210> 444  
 <211> 214  
 <212> PRT  
 <213> Homo sapiens

<400> 444  
 Met Gln Val Thr Ile Thr Leu Thr Ser Pro Ile Ile Arg Glu Glu Asn  
           1                  5                  10                  15  
 Met Arg Glu Gly Asp Val Thr Ser Gly Met Val Lys Asp Pro Pro Asp  
           20                  25                  30  
 Val Leu Asp Arg Gln Lys Cys Leu Asp Ala Leu Ala Ala Leu Arg His  
           35                  40                  45  
 Ala Lys Trp Phe Gln Ala Arg Ala Asn Gly Leu Gln Ser Cys Val Ile  
           50                  55                  60  
 Ile Ile Arg Ile Leu Arg Asp Leu Cys Gln Arg Val Pro Thr Trp Ser  
           65                  70                  75                  80  
 Asp Phe Pro Ser Trp Ala Met Glu Leu Leu Val Glu Lys Ala Ile Ser  
                   85                  90                  95  
 Ser Ala Ser Ser Pro Gln Ser Pro Gly Asp Ala Leu Arg Arg Val Phe  
           100                  105                  110  
 Glu Cys Ile Ser Ser Gly Ile Ile Leu Lys Gly Ser Pro Gly Leu Leu  
           115                  120                  125  
 Asp Pro Cys Glu Lys Asp Pro Phe Asp Thr Leu Ala Thr Met Thr Asp  
           130                  135                  140

Gln Gln Arg Glu Asp Ile Thr Ser Ser Ala Gln Phe Ala Leu Arg Leu  
145 150 155 160

Leu Ala Phe Arg Gln Ile His Lys Val Leu Gly Met Asp Pro Leu Pro  
165 170 175

Gln Met Ser Gln Arg Phe Asn Ile His Asn Asn Arg Lys Arg Arg Arg  
180 185 190

Asp Ser Asp Gly Val Asp Gly Phe Glu Ala Glu Gly Lys Lys Asp Lys  
195 200 205

Lys Asp Tyr Asp Asn Phe  
210

<210> 445

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals stop translation

<400> 445

Leu Leu Ser Ile Leu Leu Cys Leu Leu Ala Ser Gly Leu Val Val Phe  
1 5 10 15

Phe Leu Phe Pro His Ser Val Leu Val Asp Asp Asp Gly Ile Lys Val  
20 25 30

Val Lys Val Thr Phe Asn Lys Gln Asp Ser Leu Val Ile Leu Thr Ile  
35 40 45

Met Ala Thr Leu Lys Ile Arg Asn Ser Asn Phe Tyr Thr Val Ala Val  
50 55 60

Thr Ser Leu Ser Ser Gln Ile Gln Tyr Met Asn Thr Val Val Asn Phe  
65 70 75 80

Thr Gly Lys Ala Glu Met Gly Gly Pro Phe Ser Tyr Val Tyr Phe Phe  
85 90 95

Cys Thr Val Pro Glu Ile Leu Val His Asn Ile Val Ile Phe Met Arg  
100 105 110

Thr Ser Val Lys Ile Ser Tyr Ile Gly Leu Met Thr Gln Ser Ser Leu  
115 120 125

Glu Thr His His Tyr Val Asp Cys Gly Gly Asn Ser Thr Ala Ile Xaa  
130 135 140



<210> 446  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals stop translation

<400> 446  
 Met Phe Phe Phe Leu Tyr Val Tyr Ser Val Leu Cys Gly Leu Leu Val  
   1                  5                  10                  15  
 Tyr Pro Ser Leu Pro Ser His Ser Val Ser Leu Val Thr Ser Leu Val  
           20                  25                  30

Ala Ser Ala Leu Xaa  
           35

<210> 447  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals stop translation

<400> 447  
 Met Ala Ser Ile Asn Ala Val Tyr Ile His Val Phe Leu Gly Val Cys  
   1                  5                  10                  15  
 Val Gln Ala Thr Ala Ala Cys Pro Trp Cys Ser Gln Cys Arg Xaa Gly  
           20                  25                  30

Ser Val Pro Ser Xaa  
           35

<210> 448  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<210> 446  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals stop translation

<400> 446  
 Met Phe Phe Phe Leu Tyr Val Tyr Ser Val Leu Cys Gly Leu Leu Val  
           1                  5                  10                  15

Tyr Pro Ser Leu Pro Ser His Ser Val Ser Leu Val Thr Ser Leu Val  
                   20                  25                  30

Ala Ser Ala Leu Xaa  
                   35

<210> 447  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals stop translation

<400> 447  
 Met Ala Ser Ile Asn Ala Val Tyr Ile His Val Phe Leu Gly Val Cys  
           1                  5                  10                  15

Val Gln Ala Thr Ala Ala Cys Pro Trp Cys Ser Gln Cys Arg Xaa Gly  
                   20                  25                  30

Ser Val Pro Ser Xaa  
                   35

<210> 448  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (192)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 448

Met Met Ala Ala Met Val Leu Thr Ser Leu Ser Cys Ser Pro Val Val  
 1 5 10 15

Gln Ser Pro Pro Gly Thr Glu Ala Asn Phe Ser Ala Ser Arg Ala Ala  
 20 25 30

Cys Asp Pro Trp Lys Glu Ser Gly Asp Ile Ser Asp Ser Gly Xaa Ser  
 35 40 45

Thr Thr Ser Gly His Trp Ser Gly Ser Ser Gly Val Ser Thr Pro Ser  
 50 55 60

Pro Pro His Pro Gln Ala Ser Pro Lys Tyr Leu Gly Asp Ala Phe Gly  
 65 70 75 80

Ser Pro Gln Thr Asp His Gly Phe Glu Thr Asp Pro Asp Pro Phe Leu  
 85 90 95

Leu Asp Glu Pro Ala Pro Arg Lys Arg Lys Asn Ser Val Lys Val Met  
 100 105 110

Tyr Lys Cys Leu Trp Pro Asn Cys Gly Lys Val Leu Arg Ser Ile Val  
 115 120 125

Gly Ile Lys Arg His Val Lys Ala Leu His Leu Gly Asp Thr Val Asp  
 130 135 140

Ser Asp Gln Phe Lys Arg Glu Glu Asp Phe Tyr Tyr Thr Glu Val Gln  
 145 150 155 160

Leu Lys Glu Glu Ser Ala Ala Ala Ala Ala Ala Ala Ala Asp Pro  
 165 170 175

Gln Ser Leu Gly Leu Pro Pro Pro Ser Gln Leu Pro Pro Pro Ala Xaa  
 180 185 190

&lt;210&gt; 449

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 449

Met Ser Thr Asn Tyr Leu Thr Asp Val Cys Ser Leu Phe Ser Tyr Leu

|   |    |    |    |
|---|----|----|----|
| 1   | 5  | 10 | 15 |
| Asn Tyr Leu Tyr Phe His His His Leu Pro Val Pro Asn Thr Xaa |    |    |    |
| 20  | 25 | 30 |    |

&lt;210&gt; 450

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 450

|   |
|---|
| Met Gly Phe Phe Phe Val Leu Phe Phe Leu Tyr Leu Ala Leu Ser Arg |
| 1 5 10 15   |

|   |
|---|
| Asp Trp Ser Ile Asn Phe Leu Lys Asp His Arg Ile Asn Phe Phe Val |
| 20 25 30  |

|   |
|---|
| Ala Thr Ser Tyr Phe Ser Val Tyr Val Arg Gly Xaa Pro Xaa Val Pro |
| 35 40 45  |

|   |
|---|
| Ala Asp Thr Pro Leu Gly Pro Leu Leu Ser Leu Trp Leu His His Asn |
| 50 55 60  |

|   |
|---|
| Ala Phe Phe Ser Ile Leu Pro Lys Phe Pro Glu Asn Xaa Xaa Phe Leu |
| 65 70 75 80   |

|   |
|---|
| Ile Leu Lys Lys Leu Val Val Glu Met Gly Trp Asp Leu Phe Ile Ser |
| 85 90 95  |

|                     |
|---------------------|
| Pro Glu Asn Lys Xaa |
| 100                 |

<210> 451  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals stop translation

<400> 451  
 Met Ala Arg Tyr Phe Ile Phe Phe Ile Leu Val Phe Met Lys Val Ser  
           1                  5                  10                  15  
 Leu Asn Thr Thr Trp Pro Ala Pro Arg Pro Ala Thr Leu Arg Thr Ala  
                   20                  25                  30  
 Asn Lys Ser Lys Xaa  
                   35

<210> 452  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals stop translation

<400> 452  
 Phe Ser Thr Ile Arg Ser Gly Leu Thr Asp Arg Ser Val Asn Phe Leu  
           1                  5                  10                  15  
 Phe Leu Phe Leu Asp Val Pro Asp Cys Arg Leu Val Asn Ile Glu Leu  
                   20                  25                  30  
 Met Ala Asn Ser Thr Val Thr His Ala Xaa  
           35                  40

<210> 453  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 453  
 Met Ser Glu Trp Glu Leu Ser Ser Lys Phe Ser Gln Thr Gln Arg Gln  
           1                  5                  10                  15  
 His Cys Leu Leu Leu Asn Asp Tyr Ser Phe Leu Pro Val Phe Trp Tyr  
                   20                  25                  30  
 Phe Leu Gly Ile Leu Leu Thr Thr Ala Ile Thr Leu Phe Tyr Phe His  
           35                  40                  45

<210> 454  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals stop translation

<400> 454  
 Met Pro Trp Arg Arg Ala Gly Leu Met Met Leu Pro Ile Ile Thr Gly  
           1                  5                  10                  15  
 Cys Cys Pro Cys Ser Ala Ser Ile Xaa  
                   20                  25

<210> 455  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 455  
 Met Tyr Leu Cys Lys Thr Val Lys Val Leu Ile Cys Tyr Asp Trp Ile  
           1                  5                  10                  15  
 Leu Gly Leu Val Ser Ser Gly Gln His Trp Val Val Ser Leu Ser Tyr  
                   20                  25                  30  
 Ser Ile Arg Val Tyr Pro Ala Met His Phe Thr Leu Cys Val His Ile  
           35                  40                  45  
 Tyr Ser Lys Glu Pro Cys  
           50

<210> 456  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals stop translation

<400> 456  
 Met Thr Ala Leu Val Trp Arg Lys Gly Pro Asp Gly Gly Ser Arg Lys  
           1                  5                  10                  15  
 Pro Ile Leu Leu Leu Phe Phe Phe Leu Pro Leu Ile Leu Cys Phe His  
                   20                  25                  30

Ser Phe Ile His Ser Ser Asn Ile Cys Xaa  
 35 40

<210> 457

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals stop translation

<400> 457

Met Phe Leu Thr Thr Trp Phe Leu Leu Leu Ser Val Ala Trp Xaa Ala  
 1 5 10 15

Leu Thr Arg Ser Gly Arg Ser Cys Leu Pro Leu Val Gly Arg Pro Arg  
 20 25 30

Glu Gln Ser Pro Arg Thr His Cys Ala Ala Ser Ser Thr Lys Glu Arg  
 35 40 45

Asn Ser Asp Pro Gln Pro Ser Pro Pro Glu Val Val Gly Pro Leu Trp  
 50 55 60

Ser Xaa  
 65

<210> 458

<211> 156

<212> PRT

<213> Homo sapiens

<400> 458

Met Lys Ala Ile Gly Ile Glu Pro Ser Leu Ala Thr Tyr His His Ile  
 1 5 10 15

Ile Arg Leu Phe Asp Gln Pro Gly Asp Pro Leu Lys Arg Ser Ser Phe  
 20 25 30

Ile Ile Tyr Asp Ile Met Asn Glu Leu Met Gly Lys Arg Phe Ser Pro  
 35 40 45

Lys Asp Pro Asp Asp Asp Lys Phe Phe Gln Ser Ala Met Ser Ile Cys  
 50 55 60

Ser Ser Leu Arg Asp Leu Glu Leu Ala Tyr Gln Val His Gly Leu Leu  
 65 70 75 80

Lys Thr Gly Asp Asn Trp Lys Phe Ile Gly Pro Asp Gln His Arg Asn

85

90

95

Phe Tyr Tyr Ser Lys Phe Phe Asp Leu Ile Cys Leu Met Glu Gln Ile  
 100 105 110

Asp Val Thr Leu Lys Trp Tyr Glu Asp Leu Ile Pro Ser Ala Tyr Phe  
 115 120 125

Pro His Ser Gln Thr Met Ile His Leu Leu Gln Ala Leu Asp Val Ala  
 130 135 140

Asn Arg Leu Glu Val Ile Pro Lys Ile Trp Glu Arg  
 145 150 155

&lt;210&gt; 459

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 459

Met Asn Asp Asn Ser Pro Asn His Ser Ser Ser Tyr Leu Pro Leu Pro  
 1 5 10 15

Leu Thr Ile Val Ile Leu Gln Thr Gly His Lys Gly Thr Leu Xaa  
 20 25 30

&lt;210&gt; 460

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 460

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
 1 5 10 15

Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
 20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
 35 40 45

Gly Asp Leu Leu Lys Cys Pro Leu Xaa  
 50 55

&lt;210&gt; 461



<211> 416  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (338)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (416)  
 <223> Xaa equals stop translation

<400> 461

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
 1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
 20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg  
 35 40 45

Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
 50 55 60

Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp  
 65 70 75 80

Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr  
 85 90 95

Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
 100 105 110

Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp  
 115 120 125

Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu  
 130 135 140

His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe  
 145 150 155 160

Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr  
 165 170 175

Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu  
 180 185 190

Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met  
 195 200 205

Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu  
 210 215 220

Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met

|   |     |     |  |     |  |     |
|---|-----|-----|--|-----|--|-----|
| 225   |     | 230 |  | 235 |  | 240 |
| Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe |     |     |  |     |  |     |
|   | 245 |     |  | 250 |  | 255 |
| Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn |     |     |  |     |  |     |
|   | 260 |     |  | 265 |  | 270 |
| Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys |     |     |  |     |  |     |
|   | 275 |     |  | 280 |  | 285 |
| Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met |     |     |  |     |  |     |
|   | 290 |     |  | 295 |  | 300 |
| Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg |     |     |  |     |  |     |
|   | 305 |     |  | 310 |  | 315 |
| Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser |     |     |  |     |  |     |
|   | 325 |     |  | 330 |  | 335 |
| Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg |     |     |  |     |  |     |
|   | 340 |     |  | 345 |  | 350 |
| His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu |     |     |  |     |  |     |
|   | 355 |     |  | 360 |  | 365 |
| Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Ala Arg |     |     |  |     |  |     |
|   | 370 |     |  | 375 |  | 380 |
| Ala Trp Thr Thr Ser Thr Thr Cys Ser Arg Trp Ala Leu Arg Pro Pro |     |     |  |     |  |     |
|   | 385 |     |  | 390 |  | 395 |
| Arg Trp Thr Cys Ser Phe Leu Ser His Gly Val Ser Glu Gln Val Xaa |     |     |  |     |  |     |
|   | 405 |     |  | 410 |  | 415 |

&lt;210&gt; 462

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 462

|   |
|---|
| Met Ala Pro Gly Pro Leu Ser Ala Thr Gln Ala Val Val Ile His Thr |
| 1 5 10 15   |

|   |
|---|
| Thr His Cys Leu Gln Leu Pro Val Trp Cys Leu Ser Leu Val Ser Glu |
| 20 25 30  |

|   |
|---|
| Leu Leu Gly Arg Ala Pro Pro His Asn Lys Asp Ala Leu Arg Pro Ser |
| 35 40 45  |

Lys Lys Lys Lys Lys Lys Leu Xaa Gly Gly Pro Val Pro Ile Pro Pro  
 50 55 60

<210> 463

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals stop translation

<400> 463

Met Leu Gly Ala Lys Pro His Trp Leu Pro Gly Pro Leu His Ser Pro  
 1 5 10 15

Gly Leu Pro Leu Val Leu Val Leu Leu Ala Leu Gly Ala Gly Trp Ala  
 20 25 30

Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val  
 35 40 45

Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu  
 50 55 60

Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Ala Ala Val Arg Ser Xaa  
 65 70 75 80

His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Xaa Gly Ala Ile  
 85 90 95

Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala  
 100 105 110

Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe  
 115 120 125

His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met  
 130 135 140

Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val  
 145 150 155 160

Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly  
                   165                  170                  175

Asp Arg Val Ser Leu Arg Leu Arg Arg Gly Asn Leu Leu Gly Gly Trp  
                   180                  185                  190

Lys Tyr Ser Ser Phe Ser Gly Phe Leu Ile Phe Pro Leu Xaa  
                   195                  200                  205

<210> 464  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals stop translation

<400> 464  
 Met Gln Arg Lys Val Ser Asp Phe Ile Ile His Gln Arg Leu Thr Val  
   1                  5                  10                  15

Asn Leu Cys Val Ile Ser Phe Phe Phe Phe Leu Pro Ile Cys Ile Phe  
                   20                  25                  30

Ser Leu Ala Lys Lys Xaa  
                   35

<210> 465  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (136)  
 <223> Xaa equals stop translation

<400> 465  
 Val Val Gly Thr Gly Thr Ser Leu Ala Leu Ser Ser Leu Leu Ser Leu  
   1                  5                  10                  15

Leu Leu Phe Ala Gly Met Gln Met Tyr Ser Arg Gln Leu Ala Ser Thr  
                   20                  25                  30

Glu Trp Leu Thr Ile Gln Gly Gly Leu Leu Gly Ser Gly Leu Phe Val  
                   35                  40                  45

Phe Ser Leu Thr Ala Phe Asn Asn Leu Glu Asn Leu Val Phe Gly Lys  
                   50                  55                  60

Gly Phe Gln Ala Lys Ile Phe Pro Glu Ile Leu Leu Cys Leu Leu Leu  
   65                  70                  75                  80

Ala Leu Phe Ala Ser Gly Leu Ile His Arg Val Cys Val Thr Thr Cys  
                   85                  90                  95

Phe Ile Phe Ser Met Val Gly Leu Tyr Tyr Ile Asn Lys Ile Ser Ser  
           100                  105                  110

Thr Leu Tyr Gln Ala Ala Ala Pro Val Leu Thr Pro Ala Lys Val Thr  
           115                  120                  125

Gly Lys Ser Lys Lys Arg Asn Xaa  
       130                  135

<210> 466

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals stop translation

<400> 466

Met Cys Leu Ser Arg Trp Lys Ile Phe Tyr Thr Leu Leu Ile Leu Phe  
       1                  5                  10                  15

Xaa Xaa Phe Ser Ile Thr Ser Glu Xaa Glu Thr Phe Tyr Met Ile Ile  
           20                  25                  30

Ile His His Asn Pro Thr Gln Ile Thr Ala Ser Cys Ser Phe Thr Phe  
           35                  40                  45

Leu Xaa  
       50

<210> 467

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals stop translation

<400> 467  
 Met Trp Gly Cys Ser Gly Leu Gly His Arg Thr Val Ser Phe Leu Leu  
   1                  5                  10                  15  
 Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Xaa Leu Phe Gly Leu Ile  
                   20                  25                  30  
 Pro Ile Ser Arg Pro Cys Lys Val Glu Ala Pro Arg Leu Ser Val Pro  
           35                  40                  45  
 Xaa Leu Ser Cys Ala Ser His Pro Tyr Cys Asn Cys Pro Met Ser Thr  
   50                  55                  60  
 Ser Cys Pro Leu Pro Arg Xaa  
   65                  70

<210> 468  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals stop translation

<400> 468  
 Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn Pro Pro  
   1                  5                  10                  15  
 Cys Leu Leu Ser Thr Val Gln Tyr Ile Ser Ser Phe Tyr Ala Ser Cys  
           20                  25                  30  
 Leu Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln Phe Thr Ala Ala Val  
   35                  40                  45  
 Glu Phe Ile Lys Thr Ile Asp Asp Arg Lys Xaa  
   50                  55

<210> 469  
 <211> 59  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 469

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Ser | Arg | Thr | Ser | Asn | Phe | Trp | Thr | Phe | Phe | Phe | Gln | Phe | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Lys | Val | Phe | Leu | Val | Leu | Lys | Asn | Xaa | Phe | Thr | Ser | Gln | Lys |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Xaa | Ile | Xaa | Xaa | Glu | Lys | Pro | Lys | Lys | Lys | Lys | Xaa | Arg | Gly |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     |     | 45  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Ala | Pro | Ser | Pro | Gln | Gly | Gly | Pro | Xaa |
|     | 50  |     |     |     |     | 55  |     |     |     |     |

<210> 470

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 470

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Ser | Leu | Leu | Ser | Ala | Gly | Leu | Gln | Ala | Ser | Leu | Cys | Gly | Lys |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Trp | Ala | Ser | Thr | Trp | Tyr | Leu | Val | Cys | Cys | Leu | Leu | Pro | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | His | Gln | Gly | Cys | Cys | Asp | His | Lys | Ser | Lys | Gln | Gln | Tyr | Ile | Pro |
|     |     | 35  |     |     |     |     |     | 40  |     |     |     | 45  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Lys | Ser | Tyr | Cys | Gly | Leu | Ser | Thr | Ile | Glu | Ile | Xaa |
|     | 50  |     |     |     |     | 55  |     |     |     |     |     | 60  |     |

<210> 471

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (316)

<223> Xaa equals stop translation

<400> 471

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Thr | Lys | Lys | Leu | Cys | Ile | Val | Gly | Gly | Ile | Leu | Leu | Val | Phe |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ile | Ile | Ala | Phe | Leu | Val | Gly | Gly | Leu | Ile | Ala | Pro | Gly | Pro | Thr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Val | Ser | Tyr | Met | Ser | Val | Lys | Cys | Val | Asp | Ala | Arg | Lys | Asn |
|     |     | 35  |     |     |     |     |     | 40  |     |     |     |     | 45  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | His | Lys | Thr | Lys | Trp | Phe | Val | Pro | Trp | Gly | Pro | Asn | His | Cys | Asp |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|



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<210> 472
<211> 24
<212> PRT
<213> Homo sapiens
```

<222> (24)

<223> Xaa equals stop translation

<400> 472

Met Leu Ala Leu Leu Gly Leu Leu Ala Gly Thr Glu His Pro Pro Gly  
1 5 10 15

Pro Gln Gly Pro Gly Pro Ser Xaa  
20

<210> 473

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals stop translation

<400> 473

Met Pro Ser Gly Ala Cys Cys Ser Pro Xaa  
1 5 10

<210> 474

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals stop translation

<400> 474

Tyr Val Met Ile Phe Lys Lys Glu Phe Ala Pro Ser Asp Glu Glu Leu  
1 5 10 15

Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp Pro Gln Lys Ala Glu Glu  
20 25 30

Lys Arg Asn Xaa Lys Glu Leu Ala Gln Arg Gln Xaa Gly Gly Gly Ser  
35 40 45

Pro Ala Gly Ala Cys Gly Gly Glu Pro Cys Gln Arg Leu Gln Gly Gln  
50 55 60

Val Gln Pro Pro His Arg Gln Gly Ser Ser Gln Arg Arg Ser Pro His  
 65 70 75 80

Ala Thr Gly Gln Xaa  
 85

<210> 475

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 475

Met Leu Pro Ala Leu Ser Thr Val Leu Leu Pro Thr Pro Ser Leu Cys  
 1 5 10 15

Ser Gly Asn Pro Arg Glu Gly Trp Ala Xaa  
 20 25

<210> 476

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals stop translation

<400> 476

Lys Glu Phe Phe Val Phe Leu Phe Val Cys Leu Phe Trp Leu Leu Ser  
 1 5 10 15

Asn Thr Pro Leu Thr Phe Ile Ser Ile Ile Leu Gln Arg Lys Glu Thr  
 20 25 30

Asn Xaa

<210> 477

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
 <222> (172)  
 <223> Xaa equals stop translation

<400> 477

Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val Ile Cys Tyr  
 1 5 10 15

Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu Pro Trp Ala  
 20 25 30

Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val Tyr Ser Gly  
 35 40 45

Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met Gly Leu Thr  
 50 55 60

Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser Thr Phe Pro  
 65 70 75 80

Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile Leu Val Phe  
 85 90 95

Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp Lys Arg Pro  
 100 105 110

Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly Thr Glu Gln  
 115 120 125

Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn Met Asp Lys  
 130 135 140

Ser Asp Ser Glu Leu Asn Xaa Glu Val Ala Ala Arg Lys Arg Asn Leu  
 145 150 155 160

Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met Xaa  
 165 170

<210> 478

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

&lt;400&gt; 478

Met Cys Ile His Val Phe Met Xaa Val Leu Trp Val Leu Phe Leu Leu  
 1 5 10 15

Asn Pro Leu Cys Thr Gly Leu Trp Pro Leu Xaa Asn Cys Phe Ser Val  
 20 25 30

Leu Arg His Ala Asp Trp Val Leu Gly Ala Asp Tyr Lys Gly Glu Glu  
 35 40 45

Leu Asn Arg His Gln Gly Pro Met Lys Pro Lys Asp Xaa  
 50 55 60

&lt;210&gt; 479

&lt;211&gt; 3

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 479

Gly Arg Xaa

1

&lt;210&gt; 480

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 480

Met Phe His Val Leu Met Ala Gln Val Thr Xaa Val Ile Ile Thr Thr  
 1 5 10 15

Val Ser Val Leu Val Phe Asp Phe Arg Pro Ser Leu Glu Phe Phe Leu  
                   20                  25                  30

Glu Ala Xaa Ser Val Xaa Leu Ser Ile Phe Ile Tyr Asn Ala Ser Lys  
           35                  40                  45

Pro Gln Val Pro Glu Tyr Ala Pro Arg Gln Glu Arg Ile Arg Asp Leu  
           50                  55                  60

Ser Gly Asn Leu Trp Glu Arg Ser Ser Gly Asp Gly Glu Glu Leu Glu  
           65                  70                  75                  80

Arg Leu Thr Lys Pro Lys Ser Asp Glu Ser Asp Glu Asp Thr Phe Xaa  
                   85                  90                  95

<210> 481  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (159)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals stop translation

<400> 481  
 Met Arg Gly Pro Ala Gln Ala Lys Leu Leu Pro Gly Ser Ala Ile Gln  
       1                  5                  10                  15

Ala Leu Val Gly Leu Ala Arg Pro Leu Val Leu Ala Leu Leu Val  
           20                  25                  30

Ser Ala Ala Leu Ser Ser Val Val Ser Arg Thr Asp Ser Pro Ser Pro  
           35                  40                  45

Thr Val Leu Asn Ser His Ile Ser Thr Pro Asn Val Asn Ala Leu Thr  
           50                  55                  60

His Glu Asn Gln Thr Lys Pro Ser Ile Ser Gln Ile Ser Thr Thr Leu  
           65                  70                  75                  80

Pro Pro Thr Thr Ser Thr Lys Lys Ser Gly Gly Ala Ser Val Val Pro  
                   85                  90                  95

His Pro Ser Pro Thr Pro Leu Ser Gln Glu Glu Ala Asp Asn Asn Glu  
           100                  105                  110

Asp Pro Ser Ile Glu Glu Glu Asp Leu Leu Met Leu Asn Ser Ser Pro

115                      120                      125  
 Ser Thr Ala Lys Asp Thr Leu Asp Asn Gly Asp Tyr Gly Glu Pro Asp  
 130                      135                      140  
 Tyr Asp Trp Thr Thr Gly Pro Arg Asp Asp Asp Glu Ser Asp Xaa His  
 145                      150                      155                      160  
 Leu Gly Arg Lys Gln Gly Leu His Gly Asn Xaa  
 165                      170  
  
 <210> 482  
 <211> 623  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (575)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 482  
 Met Phe Met Arg Ile Ala Lys Ala Tyr Ala Ala Leu Thr Asp Glu Glu  
 1                      5                      10                      15  
 Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp Gly Pro Gln Ala  
 20                      25                      30  
 Thr Ser Phe Gly Ile Ala Leu Pro Ala Trp Ile Val Asp Gln Lys Asn  
 35                      40                      45  
 Ser Ile Leu Val Leu Leu Val Tyr Gly Leu Ala Phe Met Val Ile Leu  
 50                      55                      60  
 Pro Val Val Val Gly Ser Trp Trp Tyr Arg Ser Ile Arg Tyr Ser Gly  
 65                      70                      75                      80  
 Asp Gln Ile Leu Ile Arg Thr Thr Gln Ile Tyr Thr Tyr Phe Val Tyr  
 85                      90                      95  
 Lys Thr Arg Asn Met Asp Met Lys Arg Leu Ile Met Val Leu Xaa Gly  
 100                      105                      110  
 Ala Ser Glu Phe Asp Pro Gln Tyr Asn Lys Asp Ala Thr Ser Arg Pro  
 115                      120                      125  
 Thr Asp Asn Ile Leu Ile Pro Gln Leu Ile Arg Glu Ile Gly Ser Ile  
 130                      135                      140  
 Asn Leu Lys Lys Asn Glu Pro Pro Leu Thr Cys Pro Tyr Ser Leu Lys  
 145                      150                      155                      160

Ala Arg Val Leu Leu Leu Ser His Leu Ala Arg Met Lys Ile Pro Glu  
 165 170 175  
 Thr Leu Glu Glu Asp Gln Gln Phe Met Leu Lys Lys Cys Pro Ala Leu  
 180 185 190  
 Leu Gln Glu Met Val Asn Val Ile Cys Gln Leu Ile Val Met Ala Arg  
 195 200 205  
 Asn Arg Glu Glu Arg Glu Phe Arg Ala Pro Thr Leu Ala Ser Leu Glu  
 210 215 220  
 Asn Cys Met Lys Leu Ser Gln Met Ala Val Gln Gly Leu Gln Gln Phe  
 225 230 235 240  
 Lys Ser Pro Leu Leu Gln Leu Pro His Ile Glu Glu Asp Asn Leu Arg  
 245 250 255  
 Arg Val Ser Asn His Lys Lys Tyr Lys Ile Lys Thr Ile Gln Asp Leu  
 260 265 270  
 Val Ser Leu Lys Glu Ser Asp Arg His Thr Leu Leu His Phe Leu Glu  
 275 280 285  
 Asp Glu Lys Tyr Glu Glu Val Met Ala Val Leu Gly Ser Phe Pro Tyr  
 290 295 300  
 Val Thr Met Asp Ile Lys Ser Gln Val Leu Asp Asp Glu Asp Ser Asn  
 305 310 315 320  
 Asn Ile Thr Val Gly Ser Leu Val Thr Val Leu Val Lys Leu Thr Arg  
 325 330 335  
 Gln Thr Met Ala Glu Val Phe Glu Lys Glu Gln Ser Ile Cys Ala Ala  
 340 345 350  
 Glu Glu Gln Pro Ala Glu Asp Gly Gln Gly Glu Thr Asn Lys Asn Arg  
 355 360 365  
 Thr Lys Gly Gly Trp Gln Gln Lys Ser Lys Gly Pro Lys Lys Thr Ala  
 370 375 380  
 Lys Ser Lys Lys Lys Lys Pro Leu Lys Lys Lys Pro Thr Pro Val Leu  
 385 390 395 400  
 Leu Pro Gln Ser Lys Gln Gln Lys Gln Lys Gln Ala Asn Gly Val Val  
 405 410 415  
 Gly Asn Glu Ala Ala Val Lys Glu Asp Glu Glu Glu Val Ser Asp Lys  
 420 425 430  
 Gly Ser Asp Ser Glu Glu Glu Glu Thr Asn Arg Asp Ser Gln Ser Glu  
 435 440 445  
 Lys Asp Asp Gly Ser Asp Arg Asp Ser Asp Arg Glu Gln Asp Glu Lys  
 450 455 460  
 Gln Asn Lys Asp Asp Glu Ala Glu Trp Gln Glu Leu Gln Gln Ser Ile



|   |     |     |  |     |  |     |
|---|-----|-----|--|-----|--|-----|
| 465   |     | 470 |  | 475 |  | 480 |
| Gln Arg Lys Glu Arg Ala Leu Leu Glu Thr Lys Ser Lys Ile Thr His |     |     |  |     |  |     |
|   | 485 |     |  | 490 |  | 495 |
| Pro Val Tyr Ser Leu Tyr Phe Pro Glu Glu Lys Gln Glu Trp Trp Trp |     |     |  |     |  |     |
|   | 500 |     |  | 505 |  | 510 |
| Leu Tyr Ile Ala Asp Arg Lys Glu Gln Thr Leu Ile Ser Met Pro Tyr |     |     |  |     |  |     |
|   | 515 |     |  | 520 |  | 525 |
| His Val Cys Thr Leu Lys Asp Thr Glu Glu Val Glu Leu Lys Phe Pro |     |     |  |     |  |     |
|   | 530 |     |  | 535 |  | 540 |
| Ala Pro Gly Lys Pro Gly Asn Tyr Gln Tyr Thr Val Phe Leu Arg Ser |     |     |  |     |  |     |
|   | 545 |     |  | 550 |  | 555 |
| Asp Ser Tyr Met Gly Leu Asp Gln Ile Lys Pro Leu Glu Val Xaa Lys |     |     |  |     |  |     |
|   | 565 |     |  | 570 |  | 575 |
| Phe Met Arg Leu Lys Pro Val Pro Glu Asn His Pro Gln Trp Asp Thr |     |     |  |     |  |     |
|   | 580 |     |  | 585 |  | 590 |
| Ala Ile Glu Gly Asp Glu Asp Gln Glu Asp Ser Glu Gly Phe Glu Asp |     |     |  |     |  |     |
|   | 595 |     |  | 600 |  | 605 |
| Ser Phe Glu Gly Gly Arg Gly Arg Glu Glu Gly Arg Trp Trp Thr     |     |     |  |     |  |     |
|   | 610 |     |  | 615 |  | 620 |

&lt;210&gt; 483

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 483

Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser

1

5

10

15

Val Leu Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val  
                   20                  25                  30

Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Xaa Gly Pro Pro Asp Pro  
           35                  40                  45

Arg Pro Gly His Tyr Arg Arg Cys His Arg Ala Leu Thr Pro Ala Gln  
       50                  55                  60

Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Ala Ala Gly Leu Arg  
       65                  70                  75                  80

Gly Arg Gln Trp Gln Gln Pro Cys Gly Arg Ala Xaa  
                   85                  90

<210> 484

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals stop translation

<400> 484

Met Phe Lys Cys Leu Gln Thr Thr Phe Leu Phe Ile Xaa Xaa  
       1                  5                  10

<210> 485

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals stop translation

<400> 485

Ile Leu Leu Cys Ser Trp Pro Thr Gly Leu Val Gly Gly Arg Asp Pro  
       1                  5                  10                  15

Gly Ser Ser Arg Gly Ser Ser Ala Ser Leu Thr Pro Ser Pro Gly Arg  
           20                  25                  30

Gln Pro Cys Ser Arg Arg Arg Gly Tyr Ser Val Gly Arg Arg Ser Ser  
       35                  40                  45

Pro Pro Asp Gly Ser Xaa

50

<210> 486  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals stop translation

<400> 486  
 Met Ala Phe Val Leu Leu Xaa Cys Phe Val Xaa Leu Gln Ser Ser Xaa  
           1                  5                  10                  15  
 Gly Arg Ala Val Gln Xaa  
                   20

<210> 487  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 487  
 Glu Asn Met Ile Cys Val Lys Cys Leu Pro Gln Tyr Pro Glu His Ser  
           1                  5                  10                  15  
 Lys His Val

<210> 488  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 488  
 Ala Arg Val Ala Phe His Leu Ile Cys Arg Tyr Ile Leu Pro Thr Val  
           1                  5                  10                  15

Tyr Cys His Val  
20

<210> 489  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 489  
Glu Leu Val Glu Ser Pro Gly Ala Ala Gly Asn Ser Ala Arg Ser Gly  
1 5 10 15

Asn Val Val Cys  
20

<210> 490  
<211> 25  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 490  
Phe Lys Lys Leu Val Asn Pro Arg Xaa Gln Gly Ile Arg His Glu Glu  
1 5 10 15

Glu Ala Val Ser Trp Gln Glu Arg Arg  
20 25

<210> 491  
<211> 206  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 491  
Ile Ser Val Leu Xaa Tyr Pro His Cys Val Val His Glu Leu Pro Glu  
1 5 10 15

Leu Thr Ala Glu Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp  
20 25 30

Arg Asn Leu Phe Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu  
35 40 45

Thr Lys Trp Lys His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser  
50 55 60

Ala Pro Ile Leu Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln  
65 70 75 80

Leu Tyr Val Leu Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg  
85 90 95

Gln Trp Arg Lys Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys  
100 105 110

Val Arg His Arg Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp  
115 120 125

Ala Arg Pro Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn  
130 135 140

Ile Glu Arg Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro  
145 150 155 160

Asp Phe Leu Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg  
165 170 175

Val Asp Leu Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu  
180 185 190

Arg Glu Val Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu  
195 200 205

<210> 492

<211> 507

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 492

Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile Glu Gln  
1 5 10 15

Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys Gln Asp  
20 25 30

Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser  
35 40 45

Arg Glu Glu Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu Gly Glu  
50 55 60

Thr Phe Pro Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His  
65 70 75 80

Pro Gln Thr Asp Arg Leu Xaa Cys Pro Lys Gly Leu Pro Trp Xaa Pro  
 85 90 95

Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg Ser  
 100 105 110

Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val Gly  
 115 120 125

Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His Lys  
 130 135 140

Tyr Thr Ser Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu Tyr Leu  
 145 150 155 160

Arg Ser Pro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val Pro Ala  
 165 170 175

Glu Thr Leu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile  
 180 185 190

Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys  
 195 200 205

Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro  
 210 215 220

Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn Arg His  
 225 230 235 240

Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu Leu Leu  
 245 250 255

Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln  
 260 265 270

His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn  
 275 280 285

Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser Val Leu  
 290 295 300

Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu  
 305 310 315 320

Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn Leu Phe  
 325 330 335

Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys Trp Lys  
 340 345 350

His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro Ile Leu  
 355 360 365

Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr Val Leu  
 370 375 380

Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp Arg Lys  
385 390 395 400

Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg His Arg  
405 410 415

Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg Pro Trp  
420 425 430

Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu Arg Phe  
435 440 445

Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe Leu Pro  
450 455 460

Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp Leu Pro  
465 470 475 480

Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu Val Phe  
485 490 495

Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln  
500 505

<210> 493

<211> 50

<212> PRT

<213> Homo sapiens

<400> 493

Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile Glu Gln  
1 5 10 15

Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys Gln Asp  
20 25 30

Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser  
35 40 45

Arg Glu  
50

<210> 494

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

0> 494

Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu Gly Glu Thr Phe  
5 10 15

Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His Pro Gln  
20 25 30

Asp Arg Leu Xaa Cys Pro Lys Gly Leu Pro Trp Xaa  
35 40 45

10> 495

11> 51

12> PRT

13> Homo sapiens

00> 495

Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg  
1 5 10 15

Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val  
20 25 30

y Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His  
35 40 45

s Tyr Thr  
50

110> 496

111> 47

112> PRT

113> Homo sapiens

100> 496

er Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu Tyr Leu Arg Ser  
1 5 10 15

ro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val Pro Ala Glu Thr  
20 25 30

eu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile Ala  
35 40 45

210> 497

211> 48

212> PRT

213> Homo sapiens

400> 497

eu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys Thr  
1 5 10 15

Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro Thr  
20 25 30



```
<210> 498
<211> 50
<212> LRT
<213> Homo sapiens
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His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln His  
20 25 30

Asn Ile  
50

```
<210> 499
<211> 48
<212> PRT
<213> Homo sapiens
```

His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu Ser Leu Glu  
20 25 30

Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn Leu Phe Ser Cys Ile  
35 40 45

```
<210> 500
<211> 47
<212> PRT
<213> Homo sapiens
```

Thr Met Met Leu Val Val Phe Lys Ser Ala Pro Ile Leu Lys Arg Ala  
20 25 30

Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr Val Leu Lys Leu  
                   35                                  40                                  45

<210> 501

<211> 45

<212> PRT

<213> Homo sapiens

<400> 501

Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp Arg Lys Ser Asn  
       1                                  5                                  10                                  15

Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg His Arg Leu Asn  
                   20                                  25                                  30

Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg Pro  
                   35                                  40                                  45

<210> 502

<211> 48

<212> PRT

<213> Homo sapiens

<400> 502

Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu Arg  
       1                                  5                                  10                                  15

Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe Leu  
                   20                                  25                                  30

Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp Leu  
                   35                                  40                                  45

<210> 503

<211> 28

<212> PRT

<213> Homo sapiens

<400> 503

Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu Val  
       1                                  5                                  10                                  15

Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln  
                   20                                  25

<210> 504

<211> 317

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 504

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Pro | Pro | Ala | Pro | Gly | Pro | Ala | Ser | Gly | Gly | Ser | Gly | Glu | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Glu | Leu | Phe | Asp | Val | Lys | Asn | Ala | Phe | Tyr | Ile | Gly | Ser | Tyr | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gln | Cys | Ile | Asn | Glu | Ala | Xaa | Xaa | Val | Lys | Leu | Ser | Ser | Pro | Glu | Arg |
|     |     | 35  |     |     |     |     |     | 40  |     |     |     |     | 45  |     |     |
| Asp | Val | Glu | Arg | Asp | Val | Phe | Leu | Tyr | Arg | Ala | Tyr | Leu | Ala | Gln | Arg |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Lys | Phe | Gly | Val | Val | Leu | Asp | Glu | Ile | Lys | Pro | Ser | Ser | Ala | Pro | Glu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Leu | Gln | Ala | Val | Arg | Met | Phe | Ala | Asp | Tyr | Leu | Ala | His | Glu | Ser | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Arg | Asp | Ser | Ile | Val | Ala | Glu | Leu | Asp | Arg | Glu | Met | Ser | Arg | Ser | Xaa |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asp | Val | Thr | Asn | Thr | Thr | Phe | Leu | Leu | Met | Ala | Ala | Ser | Ile | Tyr | Leu |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |
| His | Asp | Gln | Asn | Pro | Asp | Ala | Ala | Leu | Arg | Ala | Leu | His | Gln | Gly | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Leu | Glu | Cys | Thr | Ala | Met | Thr | Val | Gln | Ile | Leu | Leu | Lys | Leu | Asp |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Arg | Leu | Asp | Leu | Ala | Arg | Lys | Glu | Leu | Lys | Arg | Met | Gln | Asp | Leu | Asp |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Glu | Asp | Ala | Thr | Leu | Thr | Gln | Leu | Ala | Thr | Ala | Trp | Val | Ser | Leu | Ala |
|     | 180 |     |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Thr | Gly | Gly | Glu | Lys | Leu | Gln | Asp | Ala | Tyr | Tyr | Ile | Phe | Gln | Glu | Met |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ala | Asp | Lys | Cys | Ser | Pro | Thr | Leu | Leu | Leu | Leu | Asn | Gly | Gln | Ala | Ala |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Cys | His | Met | Ala | Gln | Gly | Arg | Trp | Glu | Ala | Ala | Glu | Gly | Leu | Leu | Gln |

225                      230                      235                      240  
 Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr Leu Val Asn Leu  
                                  245                      250                      255  
 Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu Val Thr Asn Arg  
                                  260                      265                      270  
 Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser His Pro Phe Ile Lys  
                                  275                      280                      285  
 Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val Leu Gln Tyr  
                                  290                      295                      300  
 Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser Gly Pro  
                                  305                      310                      315  
  
 <210> 505  
 <211> 261  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 505  
 Arg Asp Val Glu Arg Asp Val Phe Leu Tyr Arg Ala Tyr Leu Ala Gln  
   1                      5                      10                      15  
 Arg Lys Phe Gly Val Val Leu Asp Glu Ile Lys Pro Ser Ser Ala Pro  
                                  20                      25                      30  
 Glu Leu Gln Ala Val Arg Met Phe Ala Asp Tyr Leu Ala His Glu Ser  
                                  35                      40                      45  
 Arg Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg Ser  
                                  50                      55                      60  
 Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile Tyr  
   65                      70                      75                      80  
 Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln Gly  
                                  85                      90                      95  
 Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys Leu  
                                  100                      105                      110  
 Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp Leu  
                                  115                      120                      125  
 Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val Ser Leu  
                                  130                      135                      140  
 Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe Gln Glu  
   145                      150                      155                      160

Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Asn Gly Gln Ala  
                   165                  170                  175

Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu Gly Leu Leu  
                   180                  185                  190

Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr Leu Val Asn  
                   195                  200                  205

Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu Val Thr Asn  
                   210                  215                  220

Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser His Pro Phe Ile  
                   225                  230                  235                  240

Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val Leu Gln  
                   245                  250                  255

Tyr Ala Pro Ser Ala  
                   260

<210> 506

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 506

Met Ala Pro Pro Ala Pro Gly Pro Ala Ser Gly Gly Ser Gly Glu Val  
       1                  5                  10                  15

Asp Glu Leu Phe Asp Val Lys Asn Ala Phe Tyr Ile Gly Ser Tyr Gln  
                   20                  25                  30

Gln Cys Ile Asn Glu Ala Xaa Xaa Val Lys Leu Ser Ser Pro Glu Arg  
                   35                  40                  45

<210> 507

<211> 47

<212> PRT

<213> Homo sapiens

<400> 507

Asp Val Glu Arg Asp Val Phe Leu Tyr Arg Ala Tyr Leu Ala Gln Arg  
 1 5 10 15

Lys Phe Gly Val Val Leu Asp Glu Ile Lys Pro Ser Ser Ala Pro Glu  
 20 25 30

Leu Gln Ala Val Arg Met Phe Ala Asp Tyr Leu Ala His Glu Ser  
 35 40 45

<210> 508

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Arg Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg Ser  
 1 5 10 15

Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile Tyr  
 20 25 30

Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln Gly  
 35 40 45

<210> 509

<211> 47

<212> PRT

<213> Homo sapiens

<400> 509

Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys Leu  
 1 5 10 15

Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp Leu  
 20 25 30

Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val Ser  
 35 40 45

<210> 510

<211> 47

<212> PRT

<213> Homo sapiens

<400> 510

Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe Gln  
 1 5 10 15

Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly Gln  
                   20                  25                  30

Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu Gly  
           35                  40                  45

<210> 511  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 511  
 Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr Leu  
   1                  5                  10                  15

Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu Val  
           20                  25                  30

Thr Asn Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser His Pro  
           35                  40                  45

<210> 512  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 512  
 Phe Ile Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val  
   1                  5                  10                  15

Leu Gln Tyr Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser Gly Pro  
           20                  25                  30

<210> 513  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 513  
 Arg Asp Val Glu Arg Asp Val Phe Leu Tyr Arg Ala Tyr Leu Ala Gln  
   1                  5                  10                  15

Arg Lys Phe Gly Val Val Leu Asp Glu Ile Lys Pro Ser Ser Ala Pro  
           20                  25                  30

Glu Leu Gln Ala Val Arg Met Phe Ala Asp Tyr Leu Ala His Glu  
           35                  40                  45

10> 514  
 11> 48  
 12> PRT  
 13> Homo sapiens

20>  
 21> SITE  
 22> (18)  
 23> Xaa equals any of the naturally occurring L-amino acids

100> 514  
 er Arg Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg  
 1 5 10 15  
 er Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile  
 20 25 30  
 yr Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln  
 35 40 45

210> 515  
 211> 47  
 212> PRT  
 213> Homo sapiens

400> 515  
 Gly Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys  
 1 5 10 15  
 Leu Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp  
 20 25 30  
 Leu Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val  
 35 40 45

<210> 516  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 516  
 Ser Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe  
 1 5 10 15  
 Gln Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly  
 20 25 30  
 Gln Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu  
 35 40 45

<210> 517



<211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 517

Gly Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr  
 1 5 10 15

Leu Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu  
 20 25 30

Val Thr Asn Arg Tyr Leu  
 35

<210> 518  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 518

Ser Gln Leu Lys Asp Ala His Arg Ser His Pro Phe Ile Lys Glu Tyr  
 1 5 10 15

Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val Leu Gln Tyr Ala Pro  
 20 25 30

Ser Ala

<210> 519  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 519

Asn Arg Tyr Tyr Arg Glu Ser Trp Ser Leu Gln Val Pro Val Arg Asn  
 1 5 10 15

Ser Gly Ser Thr His Ala Ser Glu Arg Asn Gly Ala Ser Gly Pro Arg  
 20 25 30

Pro Gly Leu Arg Arg Leu Arg Gly Gly Arg Arg Ala Val Arg Arg Lys  
 35 40 45

Glu Arg Leu Leu His Arg Gln Leu Pro Ala Val His Lys Arg  
 50 55 60

<210> 520  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 520

Ala Pro Gly Xaa Gly Trp Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro  
1 5 10 15

Pro Arg Ala Ser Leu Ser Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser  
20 25 30

Val Lys Tyr Thr Leu Val Val Asp Glu His Ala Gln Leu Glu Leu Val  
35 40 45

Ser Leu Arg Arg Ala Ser Glu Thr Thr Val Thr Arg Val Thr Leu Pro  
50 55 60

Pro Ser  
65

<210> 521

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 521

Ala Pro Gly Xaa Gly Trp Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro  
1 5 10 15

Pro Arg Ala Ser Leu Ser Ser Asp Thr Ser Ala Leu Ser Tyr  
20 25 30

<210> 522

<211> 36

<212> PRT

<213> Homo sapiens

<400> 522

Asp Ser Val Lys Tyr Thr Leu Val Val Asp Glu His Ala Gln Leu Glu  
1 5 10 15

Leu Val Ser Leu Arg Arg Ala Ser Glu Thr Thr Val Thr Arg Val Thr  
20 25 30

Leu Pro Pro Ser  
35

<210> 523

<211> 156

<212> PRT

<213> Homo sapiens

&lt;400&gt; 523

Met Lys Ala Ile Gly Ile Glu Pro Ser Leu Ala Thr Tyr His His Ile  
 1 5 10 15

Ile Arg Leu Phe Asp Gln Pro Gly Asp Pro Leu Lys Arg Ser Ser Phe  
 20 25 30

Ile Ile Tyr Asp Ile Met Asn Glu Leu Met Gly Lys Arg Phe Ser Pro  
 35 40 45

Lys Asp Pro Asp Asp Asp Lys Phe Phe Gln Ser Ala Met Ser Ile Cys  
 50 55 60

Ser Ser Leu Arg Asp Leu Glu Leu Ala Tyr Gln Val His Gly Leu Leu  
 65 70 75 80

Lys Thr Gly Asp Asn Trp Lys Phe Ile Gly Pro Asp Gln His Arg Asn  
 85 90 95

Phe Tyr Tyr Ser Lys Phe Phe Asp Leu Ile Cys Leu Met Glu Gln Ile  
 100 105 110

Asp Val Thr Leu Lys Trp Tyr Glu Asp Leu Ile Pro Ser Ala Tyr Phe  
 115 120 125

Pro His Ser Gln Thr Met Ile His Leu Leu Gln Ala Leu Asp Val Ala  
 130 135 140

Asn Arg Leu Glu Val Ile Pro Lys Ile Trp Glu Arg  
 145 150 155

&lt;210&gt; 524

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 524

Lys Asp Ser Lys Glu Tyr Gly His Thr Phe Arg Ser Asp Leu Arg Glu  
 1 5 10 15

Glu Ile Leu Met Leu Met Ala Arg Asp Lys His Pro Pro Glu Leu Gln  
 20 25 30

Val Ala Phe Ala Asp Cys Ala Ala Asp Ile Lys Ser Ala Tyr Glu Ser  
 35 40 45

Gln Pro Ile Arg Gln Thr Ala Gln Asp Trp Pro Ala Thr Ser Leu Asn  
 50 55 60

Cys Ile Ala Ile Leu Phe Leu Arg Ala Gly Arg Thr Gln Glu Ala Trp  
 65 70 75 80

Lys Met Leu Gly Leu Phe Arg Lys His Asn Lys Ile Pro Arg Ser Glu  
 85 90 95

Leu Leu Asn Glu Leu Met Asp Ser Ala Lys Val Ser Asn Ser Pro Ser  
 100 105 110

Gln Ala Ile Glu Val Val Glu Leu Ala Ser Ala Phe Ser Leu Pro Ile  
 115 120 125

Cys Glu Gly Leu Thr Gln Arg Val Met Ser Asp Phe Ala Ile Asn Gln  
 130 135 140

Glu Gln Lys Glu Ala Leu Ser Asn Leu Thr Ala Leu Thr Ser Asp Ser  
 145 150 155 160

Asp Thr Asp Ser Ser Ser Asp Ser Asp Ser Asp Thr Ser Glu Gly Lys  
 165 170 175

<210> 525

<211> 49

<212> PRT

<213> Homo sapiens

<400> 525

Met Lys Ala Ile Gly Ile Glu Pro Ser Leu Ala Thr Tyr His His Ile  
 1 5 10 15

Ile Arg Leu Phe Asp Gln Pro Gly Asp Pro Leu Lys Arg Ser Ser Phe  
 20 25 30

Ile Ile Tyr Asp Ile Met Asn Glu Leu Met Gly Lys Arg Phe Ser Pro  
 35 40 45

Lys

<210> 526

<211> 49

<212> PRT

<213> Homo sapiens

<400> 526

Asp Pro Asp Asp Asp Lys Phe Phe Gln Ser Ala Met Ser Ile Cys Ser  
 1 5 10 15

Ser Leu Arg Asp Leu Glu Leu Ala Tyr Gln Val His Gly Leu Leu Lys  
 20 25 30

Thr Gly Asp Asn Trp Lys Phe Ile Gly Pro Asp Gln His Arg Asn Phe  
 35 40 45

Tyr

<210> 527

<211> 28

<212> PRT

<213> Homo sapiens

<400> 527

Tyr Ser Lys Phe Phe Asp Leu Ile Cys Leu Met Glu Gln Ile Asp Val  
1 5 10 15

Thr Leu Lys Trp Tyr Glu Asp Leu Ile Pro Ser Ala  
20 25

<210> 528

<211> 30

<212> PRT

<213> Homo sapiens

<400> 528

Tyr Phe Pro His Ser Gln Thr Met Ile His Leu Leu Gln Ala Leu Asp  
1 5 10 15

Val Ala Asn Arg Leu Glu Val Ile Pro Lys Ile Trp Glu Arg  
20 25 30

<210> 529

<211> 46

<212> PRT

<213> Homo sapiens

<400> 529

Lys Asp Ser Lys Glu Tyr Gly His Thr Phe Arg Ser Asp Leu Arg Glu  
1 5 10 15

Glu Ile Leu Met Leu Met Ala Arg Asp Lys His Pro Pro Glu Leu Gln  
20 25 30

Val Ala Phe Ala Asp Cys Ala Ala Asp Ile Lys Ser Ala Tyr  
35 40 45

<210> 530

<211> 50

<212> PRT

<213> Homo sapiens

<400> 530

Glu Ser Gln Pro Ile Arg Gln Thr Ala Gln Asp Trp Pro Ala Thr Ser  
1 5 10 15

Leu Asn Cys Ile Ala Ile Leu Phe Leu Arg Ala Gly Arg Thr Gln Glu  
20 25 30

Ala Trp Lys Met Leu Gly Leu Phe Arg Lys His Asn Lys Ile Pro Arg  
35 40 45

Ser Glu  
50

<210> 531  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 531  
 Leu Leu Asn Glu Leu Met Asp Ser Ala Lys Val Ser Asn Ser Pro Ser  
           1                  5                  10                  15  
 Gln Ala Ile Glu Val Val Glu Leu Ala Ser Ala Phe Ser Leu Pro Ile  
                   20                  25                  30  
 Cys Glu Gly Leu Thr Gln Arg Val Met Ser Asp Phe Ala Ile Asn  
           35                  40                  45

<210> 532  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 532  
 Gln Glu Gln Lys Glu Ala Leu Ser Asn Leu Thr Ala Leu Thr Ser Asp  
           1                  5                  10                  15  
 Ser Asp Thr Asp Ser Ser Ser Asp Ser Asp Ser Asp Thr Ser Glu Gly  
                   20                  25                  30

Lys

<210> 533  
 <211> 324  
 <212> PRT  
 <213> Homo sapiens

<400> 533  
 Met Ser Ser Asp Asn Glu Ser Asp Ile Glu Asp Glu Asp Leu Lys Leu  
           1                  5                  10                  15  
 Glu Leu Arg Arg Leu Arg Asp Lys His Leu Lys Glu Ile Gln Asp Leu  
                   20                  25                  30  
 Gln Ser Arg Gln Lys His Glu Ile Glu Ser Leu Tyr Thr Lys Leu Gly  
           35                  40                  45  
 Lys Val Pro Pro Ala Val Ile Ile Pro Pro Ala Ala Pro Leu Ser Gly  
           50                  55                  60  
 Arg Arg Arg Arg Pro Thr Lys Ser Lys Gly Ser Lys Ser Ser Arg Ser  
           65                  70                  75                  80  
 Ser Ser Leu Gly Asn Lys Ser Pro Gln Leu Ser Gly Asn Leu Ser Gly  
                   85                  90                  95  
 Gln Ser Ala Ala Ser Val Leu His Pro Gln Gln Thr Leu His Pro Pro  
           100                  105                  110

Gly Asn Ile Pro Glu Ser Gly Gln Asn Gln Leu Leu Gln Pro Leu Lys  
 115 120 125  
 Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe Thr Ser Asp Gly  
 130 135 140  
 Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly Gln Gly Thr Ser Ser  
 145 150 155 160  
 Thr Asn Thr Val Gly Ala Thr Val Asn Ser Gln Ala Ala Gln Ala Gln  
 165 170 175  
 Pro Pro Ala Met Thr Ser Ser Arg Lys Gly Thr Phe Thr Asp Asp Leu  
 180 185 190  
 His Lys Leu Val Asp Asn Trp Ala Arg Asp Ala Met Asn Leu Ser Gly  
 195 200 205  
 Arg Arg Gly Ser Lys Gly His Met Asn Tyr Glu Gly Pro Gly Met Ala  
 210 215 220  
 Arg Lys Phe Ser Ala Pro Gly Gln Leu Cys Ile Ser Met Thr Ser Asn  
 225 230 235 240  
 Leu Gly Gly Ser Ala Pro Ile Ser Ala Ala Ser Ala Thr Ser Leu Gly  
 245 250 255  
 His Phe Thr Lys Ser Met Cys Pro Pro Gln Gln Tyr Gly Phe Pro Ala  
 260 265 270  
 Thr Pro Phe Gly Ala Gln Trp Ser Gly Thr Gly Gly Pro Ala Pro Gln  
 275 280 285  
 Pro Leu Gly Gln Phe Gln Pro Val Gly Thr Ala Ser Leu Gln Asn Phe  
 290 295 300  
 Asn Ile Ser Asn Leu Gln Lys Ser Ile Ser Asn Pro Pro Gly Ser Asn  
 305 310 315 320  
 Leu Arg Thr Thr

<210> 534  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 534  
 Ile Gln Asp Leu Gln Ser Arg Gln Lys His Glu Ile Glu Ser Leu Tyr  
 1 5 10 15  
 Thr Lys Leu Gly Lys Val Pro Pro Ala Val Ile Ile Pro Pro Ala Ala  
 20 25 30  
 Pro Leu Ser Gly Arg Arg Arg Arg Pro Thr Lys Ser Lys Gly Ser Lys  
 35 40 45

Ser Ser Arg Ser Ser Ser Leu Gly Asn Lys Ser Pro Gln Leu Ser Gly  
 50 55 60

Asn Leu Ser Gly Gln Ser Ala Ala Ser Val Leu His Pro Gln Gln Thr  
 65 70 75 80

Leu His Pro Pro Gly Asn Ile Pro Glu Ser Gly Gln Asn Gln Leu Leu  
 85 90 95

Gln Pro Leu Lys Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe  
 100 105 110

Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly Gln  
 115 120 125

Gly Thr Ser Ser Thr  
 130

<210> 535

<211> 53

<212> PRT

<213> Homo sapiens

<400> 535

Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly Gln  
 1 5 10 15

Gly Thr Ser Ser Thr Asn Thr Val Gly Ala Thr Val Asn Ser Gln Ala  
 20 25 30

Ala Gln Ala Gln Pro Pro Ala Met Thr Ser Ser Arg Lys Gly Thr Phe  
 35 40 45

Thr Asp Asp Leu His  
 50

<210> 536

<211> 48

<212> PRT

<213> Homo sapiens

<400> 536

Lys Gly His Met Asn Tyr Glu Gly Pro Gly Met Ala Arg Lys Phe Ser  
 1 5 10 15

Ala Pro Gly Gln Leu Cys Ile Ser Met Thr Ser Asn Leu Gly Gly Ser  
 20 25 30

Ala Pro Ile Ser Ala Ala Ser Ala Thr Ser Leu Gly His Phe Thr Lys  
 35 40 45



<210> 537  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 537  
 Gln Pro Leu Lys Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe  
 1 5 10 15  
 Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly  
 20 25 30

<210> 538  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 538  
 Met Ser Ser Asp Asn Glu Ser Asp Ile Glu Asp Glu Asp Leu Lys Leu  
 1 5 10 15  
 Glu Leu Arg Arg Leu Arg Asp Lys His Leu Lys Glu Ile Gln Asp Leu  
 20 25 30  
 Gln Ser Arg Gln Lys His Glu Ile Glu Ser Leu Tyr Thr Lys Leu Gly  
 35 40 45  
 Lys Val Pro  
 50

<210> 539  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 539  
 Pro Ala Val Ile Ile Pro Pro Ala Ala Pro Leu Ser Gly Arg Arg Arg  
 1 5 10 15  
 Arg Pro Thr Lys Ser Lys Gly Ser Lys Ser Ser Arg Ser Ser Ser Leu  
 20 25 30  
 Gly Asn Lys Ser Pro Gln Leu Ser Gly Asn Leu Ser Gly Gln Ser  
 35 40 45

<210> 540  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 540  
 Ala Ala Ser Val Leu His Pro Gln Gln Thr Leu His Pro Pro Gly Asn  
 1 5 10 15  
 Ile Pro Glu Ser Gly Gln Asn Gln Leu Leu Gln Pro Leu Lys Pro Ser

20

25

30

Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe Thr Ser Asp Gly Ala Ile  
           35                  40                  45

Ser Val  
       50

&lt;210&gt; 541

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 541

Pro Ser Leu Ser Ala Pro Gly Gln Gly Thr Ser Ser Thr Asn Thr Val  
       1                  5                  10                  15

Gly Ala Thr Val Asn Ser Gln Ala Ala Gln Ala Gln Pro Pro Ala Met  
                   20                  25                  30

Thr Ser Ser Arg Lys Gly Thr Phe Thr Asp Asp Leu  
       35                  40

&lt;210&gt; 542

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 542

His Lys Leu Val Asp Asn Trp Ala Arg Asp Ala Met Asn Leu Ser Gly  
       1                  5                  10                  15

Arg Arg Gly Ser Lys Gly His Met Asn Tyr Glu Gly Pro Gly Met Ala  
                   20                  25                  30

Arg Lys Phe Ser Ala Pro Gly Gln Leu Cys Ile Ser Met Thr  
       35                  40                  45

&lt;210&gt; 543

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 543

Ser Asn Leu Gly Gly Ser Ala Pro Ile Ser Ala Ala Ser Ala Thr Ser  
       1                  5                  10                  15

Leu Gly His Phe Thr Lys Ser Met Cys Pro Pro Gln Gln Tyr Gly Phe  
                   20                  25                  30

Pro Ala Thr Pro Phe Gly Ala Gln Trp Ser Gly Thr Gly Gly  
       35                  40                  45

&lt;210&gt; 544

<211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 544

Pro Ala Pro Gln Pro Leu Gly Gln Phe Gln Pro Val Gly Thr Ala Ser  
 1 5 10 15

Leu Gln Asn Phe Asn Ile Ser Asn Leu Gln Lys Ser Ile Ser Asn Pro  
 20 25 30

Pro Gly Ser Asn Leu Arg Thr Thr  
 35 40

<210> 545  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 545

Val Arg Val Ala Ala Ala Glu Ser Met Xaa Leu Leu Leu Glu Cys Ala  
 1 5 10 15

Xaa Val Arg Gly Pro Glu Tyr Leu Thr Gln Met Trp His Phe Met Cys  
 20 25 30

Asp Ala Leu Ile Lys Ala Ile Gly Thr Glu Pro Asp Ser Asp Val Leu  
 35 40 45

Ser Glu Ile Met His Ser Phe Ala Lys  
 50 55

<210> 546  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 546

Met Glu Ile Asn Asn Gln Asn Cys Phe Ile Val Ile Asp Leu Val Arg  
 1 5 10 15

Thr Val Met Glu Asn Gly Val Glu Gly Leu Leu Ile Phe Gly Ala Phe  
 20 25 30

Leu Pro Glu Ser Trp Leu Ile Gly Val Arg Cys Ser Ser Glu Pro Pro  
 35 40 45

Lys Ala Leu Leu Leu Ile Leu Ala His Ser Gln Lys Arg Arg Leu Asp  
 50 55 60

Gly Trp Ser Phe Ile Arg His Leu Arg Val His Tyr Cys Val Ser Leu  
 65 70 75 80

Thr Ile His Phe Ser  
 85

<210> 547  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 547  
 Gly Gly Arg Glu Ala Asn Lys Xaa Phe Phe Ile Glu Ser Cys Ile Ala  
 1 5 10 15

Leu Phe Val Ser Phe Ile Ile Asn Val Phe Val Val Ser Val Phe Ala  
 20 25 30

Glu Xaa Phe Phe Gly Xaa Thr Asn Glu Gln Val Val Glu Val Cys Thr  
 35 40 45

Asn Thr Ser Ser Pro His Ala Gly Leu Phe Pro Lys Asp Asn Ser Thr  
 50 55 60

Leu Ala Val Asp Ile Tyr Lys Gly Gly Val Val Leu Gly Cys Tyr Phe  
 65 70 75 80

Gly Pro Ala Ala Leu Tyr Ile Trp Ala Val Gly Ile Leu Ala Ala Gly  
 85 90 95

Gln Ser Ser Thr  
 100

<210> 548  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 548  
 Gly Gly Arg Glu Ala Asn Lys Xaa Phe Phe Ile Glu Ser Cys Ile Ala  
           1                  5                  10                  15  
 Leu Phe Val Ser Phe Ile Ile Asn Val Phe Val Val Ser Val Phe Ala  
                   20                  25                  30  
 Glu Xaa Phe Phe Gly Xaa Thr Asn Glu Gln Val Val Glu  
           35                  40                  45

<210> 549  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 549  
 Val Cys Thr Asn Thr Ser Ser Pro His Ala Gly Leu Phe Pro Lys Asp  
           1                  5                  10                  15  
 Asn Ser Thr Leu Ala Val Asp Ile Tyr Lys Gly Gly Val Val Leu Gly  
           20                  25                  30  
 Cys Tyr Phe Gly Pro Ala Ala Leu Tyr Ile Trp Ala Val Gly Ile Leu  
           35                  40                  45  
 Ala Ala Gly Gln Ser Ser Thr  
           50                  55

<210> 550  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 550  
 Gln Asp Lys His Ala Glu Glu Val Arg Lys Asn Lys Glu Leu Lys Glu  
           1                  5                  10                  15  
 Glu Ala Ser Arg  
           20

<210> 551  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 551  
 Gln Gln Asp Leu Ser Pro Trp Ala Ala Pro Val Gly Cys Pro Leu Xaa  
 1 5 10 15  
 Xaa Ala Ser Xaa Thr Cys His Xaa Leu Pro Leu Ser Gly Cys Leu Arg  
 20 25 30  
 Arg Gln Ser Xaa Ser Leu Pro Val Val Ala Xaa Leu Cys Phe Trp Phe  
 35 40 45  
 Ser Cys Pro Leu Ala Ser Leu Phe Val Pro Gly Gln Pro Cys Val Thr  
 50 55 60  
 Cys Pro Phe Pro Ser Leu Pro Phe Gln Asp Lys His Ala Glu Glu Val  
 65 70 75 80  
 Arg Lys Asn Lys Glu Leu Lys Glu Glu Ala Ser Arg  
 85 90

<210> 552  
 <211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 552

Pro Thr Arg Cys Cys Thr Thr Gln Pro Cys Arg Ser Ser Ala Arg Arg  
1 5 10 15

Pro Cys Trp Val Pro Met Val Pro Ser Pro Glu Gly Arg Glu Xaa Gln  
20 25 30

Pro Thr Cys Pro Ser  
35

<210> 553

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 553

Met Lys Arg Ser Leu Asn Glu Asn Ser Ala Arg Ser Thr Ala Gly Cys  
1 5 10 15

Leu Pro Val Pro Leu Phe Asn Gln Lys Lys Arg Asn Arg Gln Pro Leu  
20 25 30

Thr Ser Asn Pro Leu Lys Asp Asp Ser Gly Ile Ser Thr Pro Ser Asp  
35 40 45

Asn Tyr Asp Phe Pro Pro Leu Pro Thr Asp Trp Ala Trp Glu Ala Val  
50 55 60

Asn Pro Glu Xaa Ala Pro Val Met Lys Thr Val Asp Thr Gly Gln Ile  
65 70 75 80

Pro His Ser Val Ser Arg Pro Leu Arg Ser Gln Asp Ser Val Phe Asn  
85 90 95

Ser Ile Gln Ser Asn Thr Gly Arg Ser Gln Gly Gly Trp Ser Tyr Arg  
 100 105 110  
 Asp Gly Asn Lys Asn Thr Ser Leu Lys Thr Trp Xaa Lys Asn Asp Phe  
 115 120 125  
 Lys Pro Gln Cys Lys Arg Thr Asn Leu Val Ala Asn Asp Gly Lys Asn  
 130 135 140  
 Ser Cys Pro Met Ser Ser Gly Ala Gln Gln Gln Lys Gln Leu Arg Thr  
 145 150 155 160  
 Pro Glu Pro Pro Asn Leu Ser Arg Asn Lys Glu Thr Glu Leu Leu Arg  
 165 170 175  
 Gln Thr His Ser Ser Lys Ile Ser Gly Cys Thr Met Arg Gly Leu Asp  
 180 185 190  
 Lys Asn Ser Ala Leu Gln Thr Leu Lys Pro Asn Phe Gln Gln Asn Gln  
 195 200 205  
 Tyr Lys Xaa Gln Met Leu Asp Asp Ile Pro Glu Asp Asn Thr Leu Lys  
 210 215 220  
 Glu Thr Ser Leu Tyr Gln Leu Gln Phe Lys Glu Lys Ala Ser Ser Leu  
 225 230 235 240  
 Arg Ile Ile Ser Ala Val Ile Glu Ser Met Lys Tyr Trp Arg Glu His  
 245 250 255  
 Ala Gln Lys Thr Val Leu Leu Phe Glu Val Leu Ala Val Leu Asp Ser  
 260 265 270  
 Ala Val Thr Pro Gly Pro Tyr Tyr Ser Lys Thr Phe Leu Met Arg Asp  
 275 280 285  
 Gly Lys Asn Thr Leu Pro Cys Val Phe Tyr Glu Ile Asp Arg Glu Leu  
 290 295 300  
 Pro Arg Leu Ile Arg Gly Arg Val His Arg Cys Val Gly Asn Tyr Asp  
 305 310 315 320  
 Gln Lys Lys Asn Ile Phe Gln Cys Val Ser Val Arg Pro Ala Ser Val  
 325 330 335  
 Ser Glu Gln Lys Thr Phe Gln Ala Phe Val Lys Ile Ala Asp Val Glu  
 340 345 350  
 Met Gln Tyr Tyr Ile Asn Val Met Asn Glu Thr  
 355 360

&lt;210&gt; 554

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;



<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 554

Ser Gln Asp Ser Val Phe Asn Ser Ile Gln Ser Asn Thr Gly Arg Ser  
1 5 10 15

Gln Gly Gly Trp Ser Tyr Arg Asp Gly Asn Lys Asn Thr Ser Leu Lys  
20 25 30

Thr Trp Xaa Lys Asn Asp Phe Lys Pro Gln Cys Lys Arg  
35 40 45

<210> 555

<211> 36

<212> PRT

<213> Homo sapiens

<400> 555

Asn Lys Glu Thr Glu Leu Leu Arg Gln Thr His Ser Ser Lys Ile Ser  
1 5 10 15

Gly Cys Thr Met Arg Gly Leu Asp Lys Asn Ser Ala Leu Gln Thr Leu  
20 25 30

Lys Pro Asn Phe  
35

<210> 556

<211> 49

<212> PRT

<213> Homo sapiens

<400> 556

Ser Ser Leu Arg Ile Ile Ser Ala Val Ile Glu Ser Met Lys Tyr Trp  
1 5 10 15

Arg Glu His Ala Gln Lys Thr Val Leu Leu Phe Glu Val Leu Ala Val  
20 25 30

Leu Asp Ser Ala Val Thr Pro Gly Pro Tyr Tyr Ser Lys Thr Phe Leu  
35 40 45

Met

<210> 557

<211> 42

<212> PRT

<213> Homo sapiens

<400> 557

Pro Arg Leu Ile Arg Gly Arg Val His Arg Cys Val Gly Asn Tyr Asp  
1 5 10 15

Gln Lys Lys Asn Ile Phe Gln Cys Val Ser Val Arg Pro Ala Ser Val  
                   20                                  25                                  30

Ser Glu Gln Lys Thr Phe Gln Ala Phe Val  
                   35                                  40

<210> 558

<211> 370

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (320)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (334)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (337)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (339)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (341)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (345)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (350)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (355)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (360)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 558

Gly Val Phe Arg Pro Cys Val Cys Gly Arg Pro Ala Ser Leu Thr Cys  
 1 5 10 15

Ser Pro Leu Asp Pro Glu Val Gly Pro Tyr Cys Asp Thr Pro Thr Met  
 20 25 30

Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro Val  
 35 40 45

His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys Thr  
 50 55 60

Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg Gly  
 65 70 75 80

Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His Arg  
 85 90 95

Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp Val  
 100 105 110

Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr Lys  
 115 120 125

Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln Leu  
 130 135 140

Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp Val  
 145 150 155 160

Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu His  
 165 170 175

Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe Arg  
 180 185 190

Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr Val  
 195 200 205

Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu Val  
 210 215 220

Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met Leu  
 225 230 235 240

Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu Leu  
 245 250 255

Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met Phe  
 260 265 270

Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe Ser

275                      280                      285

Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn Ala  
 290                      295                      300

Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys Xaa  
 305                      310                      315                      320

Lys Trp Arg Thr Lys Ser Ser Trp Gly Ser Thr Ser Met Xaa Trp Thr  
                     325                      330                      335

Xaa Arg Xaa Pro Xaa Asp Ala Arg Xaa Pro Val Val Gly Xaa Arg Xaa  
                     340                      345                      350

Ile Gln Xaa Leu Lys Asp His Xaa Pro Arg Met Val Leu Asp Ser Lys  
                     355                      360                      365

Pro Gln  
 370

<210> 559  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 559  
 Thr Cys Ser Pro Leu Asp Pro Glu Val Gly Pro Tyr Cys Asp Thr Pro  
   1                    5                    10                    15

Thr Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser  
                     20                    25                    30

Pro Val His Thr Thr Leu Ser  
                     35

<210> 560  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 560  
 Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His Arg  
   1                    5                    10                    15

Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp Val  
                     20                    25                    30

Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr Lys  
                     35                    40                    45

Val Phe Gly Ser Lys Phe  
                     50

<210> 561  
 <211> 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 561

Arg Glu Met Phe Glu Val Thr Gly Leu His Asp Val Asp Gln Gly Trp  
 1 5 10 15

Met Arg Ala Val Arg Lys His Ala Lys Gly Leu His Ile Val Pro Arg  
 20 25 30

Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe Arg Asn Val Leu Asp  
 35 40 45

Ser Glu Asp Glu  
 50

&lt;210&gt; 562

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 562

His Phe Asp Gly Phe Val Val Glu Val Trp Asn Gln Leu Leu Ser Gln  
 1 5 10 15

Lys Arg Val Gly Leu Ile His Met Leu Thr His Leu Ala Glu Ala Leu  
 20 25 30

His Gln Ala Arg Leu Leu Ala Leu Leu Val Ile Pro Pro Ala Ile Thr  
 35 40 45

Pro Gly Thr Asp Gln Leu Gly Met  
 50 55

&lt;210&gt; 563

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 563

Asp Gly Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro  
 1 5 10 15

Gly Pro Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu  
 20 25 30

Asp Pro Lys Xaa Lys Trp Arg Thr Lys Ser Ser Trp Gly Ser Thr  
 35 40 45

&lt;210&gt; 564

<211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 564

Glu Arg Gly Val Ser Ile Asn Gln Phe Cys Lys Glu Phe Asn Glu Arg  
 1 5 10 15

Thr Lys Asp Ile Lys Glu Gly Ile Pro Leu Pro Thr Lys Ile Leu Val  
 20 25 30

Lys Pro Asp Arg Thr Phe Glu Ile Lys Ile Gly Gln Pro Thr Val Ser  
 35 40 45

Tyr Phe Leu Lys Ala Ala Ala Gly Ile Glu Lys Gly Ala Arg Gln Thr  
 50 55 60

Gly Lys Glu Val Ala Gly Leu Val Thr Leu Lys His Val Tyr Glu Ile  
 65 70 75 80

Ala Arg Ile Lys Ala Gln Asp Glu Ala Phe Ala Leu Gln Asp Val Pro  
 85 90 95

Leu Ser Ser Val Val Arg Ser Ile Ile Gly Ser Ala Arg Ser Leu Gly  
 100 105 110

Ile Arg Val Val Lys Asp Leu Ser Ser Glu Glu Leu Ala Ala Phe Gln  
 115 120 125

Lys Glu Arg Ala Ile Phe Leu Ala Ala Gln Lys Glu Ala Asp Leu Ala  
 130 135 140

Ala Gln Glu Glu Ala Ala Lys Lys  
 145 150

<210> 565  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 565

Glu Arg Gly Val Ser Ile Asn Gln Phe Cys Lys Glu Phe Asn Glu Arg  
 1 5 10 15

Thr Lys Asp Ile Lys Glu Gly Ile Pro Leu Pro Thr Lys Ile Leu Val  
 20 25 30

Lys Pro Asp Arg Thr Phe Glu Ile Lys Ile Gly Gln Pro Thr Val Ser  
 35 40 45

Tyr Phe Leu  
 50

<210> 566  
 <211> 49  
 <212> PRT

<213> Homo sapiens

<400> 566

Lys Ala Ala Ala Gly Ile Glu Lys Gly Ala Arg Gln Thr Gly Lys Glu  
1 5 10 15

Val Ala Gly Leu Val Thr Leu Lys His Val Tyr Glu Ile Ala Arg Ile  
20 25 30

Lys Ala Gln Asp Glu Ala Phe Ala Leu Gln Asp Val Pro Leu Ser Ser  
35 40 45

Val

<210> 567

<211> 52

<212> PRT

<213> Homo sapiens

<400> 567

Val Arg Ser Ile Ile Gly Ser Ala Arg Ser Leu Gly Ile Arg Val Val  
1 5 10 15

Lys Asp Leu Ser Ser Glu Glu Leu Ala Ala Phe Gln Lys Glu Arg Ala  
20 25 30

Ile Phe Leu Ala Ala Gln Lys Glu Ala Asp Leu Ala Ala Gln Glu Glu  
35 40 45

Ala Ala Lys Lys  
50

<210> 568

<211> 270

<212> PRT

<213> Homo sapiens

<400> 568

Ala Val Tyr Thr Tyr His Glu Lys Lys Lys Asp Thr Ala Ala Ser Gly  
1 5 10 15

Tyr Gly Thr Gln Asn Ile Arg Leu Ser Arg Asp Ala Val Lys Asp Phe  
20 25 30

Asp Cys Cys Cys Leu Ser Leu Gln Pro Cys His Asp Pro Val Val Thr  
35 40 45

Pro Asp Gly Tyr Leu Tyr Glu Arg Glu Ala Ile Leu Glu Tyr Ile Leu  
50 55 60

His Gln Lys Lys Glu Ile Ala Arg Gln Met Lys Ala Tyr Glu Lys Gln  
65 70 75 80

Arg Gly Thr Arg Arg Glu Glu Gln Lys Glu Leu Gln Arg Ala Ala Ser  
85 90 95

Gln Asp His Val Arg Gly Phe Leu Glu Lys Glu Ser Ala Ile Val Ser  
 100 105 110

Arg Pro Leu Asn Pro Phe Thr Ala Lys Ala Leu Ser Gly Thr Ser Pro  
 115 120 125

Asp Asp Val Gln Pro Gly Pro Ser Val Gly Pro Pro Ser Lys Asp Lys  
 130 135 140

Asp Lys Val Leu Pro Ser Phe Trp Ile Pro Ser Leu Thr Pro Glu Ala  
 145 150 155 160

Lys Ala Thr Lys Leu Glu Lys Pro Ser Arg Thr Val Thr Cys Pro Met  
 165 170 175

Ser Gly Lys Pro Leu Arg Met Ser Asp Leu Thr Pro Val His Phe Thr  
 180 185 190

Pro Leu Asp Ser Ser Val Asp Arg Val Gly Leu Ile Thr Arg Ser Glu  
 195 200 205

Arg Tyr Val Cys Ala Val Thr Arg Asp Ser Leu Ser Asn Ala Thr Pro  
 210 215 220

Cys Ala Val Leu Arg Pro Ser Gly Ala Val Val Thr Leu Glu Cys Val  
 225 230 235 240

Glu Lys Leu Ile Arg Lys Asp Met Val Asp Pro Val Thr Gly Asp Lys  
 245 250 255

Leu Thr Asp Arg Asp Ile Ile Val Leu Gln Arg Gly Gly Thr  
 260 265 270

<210> 569  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 569  
 Tyr Leu Tyr Glu Arg Glu Ala Ile Leu Glu Tyr Ile Leu His Gln Lys  
 1 5 10 15

Lys Glu Ile Ala Arg Gln Met Lys Ala Tyr Glu Lys Gln Arg Gly Thr  
 20 25 30

Arg Arg Glu Glu Gln Lys Glu Leu Gln Arg Ala Ala Ser Gln Asp His  
 35 40 45

Val Arg Gly Phe Leu Glu  
 50

<210> 570  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens



&lt;400&gt; 570

Phe Thr Ala Lys Ala Leu Ser Gly Thr Ser Pro Asp Asp Val Gln Pro  
 1 5 10 15

Gly Pro Ser Val Gly Pro Pro Ser Lys Asp Lys Asp Lys Val Leu Pro  
 20 25 30

Ser Phe Trp Ile Pro Ser Leu Thr Pro Glu Ala Lys Ala Thr Lys Leu  
 35 40 45

Glu Lys Pro Ser Arg Thr Val Thr Cys Pro Met Ser Gly Lys Pro Leu  
 50 55 60

&lt;210&gt; 571

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 571

Val His Phe Thr Pro Leu Asp Ser Ser Val Asp Arg Val Gly Leu Ile  
 1 5 10 15

Thr Arg Ser Glu Arg Tyr Val Cys Ala Val Thr Arg Asp Ser Leu Ser  
 20 25 30

Asn Ala Thr Pro Cys Ala Val Leu Arg Pro Ser Gly Ala Val Val Thr  
 35 40 45

Leu Glu Cys Val Glu Lys Leu Ile  
 50 55

&lt;210&gt; 572

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 572

Met Ser Asp Leu Thr Pro Val His Phe Thr Pro Leu Asp Ser Ser Val  
 1 5 10 15

Asp Arg Val Gly Leu Ile Thr Arg Ser Glu Arg Tyr Val Cys Ala Val  
 20 25 30

Thr Arg Asp Ser Leu Ser Asn Ala Thr Pro Cys Ala Val Leu Arg Pro  
 35 40 45

Ser Gly Ala Val Val Thr Leu Glu Cys Val Glu Lys Leu Ile Arg Lys  
 50 55 60

Asp Met  
 65

<210> 573  
 <211> 567  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (409)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 573

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Met Asp Thr Ser Glu Asn Arg Pro Glu Asn Asp Val Pro Glu Pro Pro
 1          5          10          15

Met Pro Ile Ala Asp Gln Val Ser Asn Asp Asp Arg Pro Glu Gly Ser
          20          25          30

Val Glu Asp Glu Glu Lys Lys Glu Ser Ser Leu Pro Lys Ser Phe Lys
          35          40          45

Arg Lys Ile Ser Val Val Ser Ala Thr Lys Gly Val Pro Ala Gly Asn
          50          55          60

Ser Asp Thr Glu Gly Gly Gln Pro Gly Arg Lys Arg Arg Trp Gly Ala
          65          70          75          80

Ser Thr Ala Thr Thr Gln Lys Lys Pro Ser Ile Ser Ile Thr Thr Glu
          85          90          95

Ser Leu Lys Ser Leu Ile Pro Asp Ile Lys Pro Leu Ala Gly Gln Glu
          100          105          110

Ala Val Val Asp Leu His Ala Asp Asp Ser Arg Ile Ser Glu Asp Glu
          115          120          125

Thr Glu Arg Asn Gly Asp Asp Gly Thr His Asp Lys Gly Leu Lys Ile
          130          135          140

Cys Arg Thr Val Thr Gln Val Val Pro Ala Glu Gly Gln Glu Asn Gly
          145          150          155          160

Gln Arg Glu Glu Glu Glu Glu Lys Glu Pro Glu Ala Glu Pro Pro
          165          170          175

Val Pro Pro Gln Val Ser Val Glu Val Ala Leu Pro Pro Pro Ala Glu
          180          185          190

His Glu Val Lys Lys Val Thr Leu Gly Asp Thr Leu Thr Arg Arg Ser
          195          200          205

Ile Ser Gln Gln Lys Ser Gly Val Ser Ile Thr Ile Asp Asp Pro Val
          210          215          220

Arg Thr Ala Gln Val Pro Ser Pro Pro Arg Gly Lys Ile Ser Asn Ile
          225          230          235          240

Val His Ile Ser Asn Leu Val Arg Pro Phe Thr Leu Gly Gln Leu Lys

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| 245 |     |     |     |     |     |     |     |     |     | 250 |     |     |     |     | 255 |  |  |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|
| Glu | Leu | Leu | Gly | Arg | Thr | Gly | Thr | Leu | Val | Glu | Glu | Ala | Phe | Trp | Ile |  |  |  |  |  |  |
|     |     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |  |  |  |  |  |  |
| Asp | Lys | Ile | Lys | Ser | His | Cys | Phe | Val | Thr | Tyr | Ser | Thr | Val | Glu | Glu |  |  |  |  |  |  |
|     |     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |  |  |  |  |  |  |
| Ala | Val | Ala | Thr | Arg | Thr | Ala | Leu | His | Gly | Val | Lys | Trp | Pro | Gln | Ser |  |  |  |  |  |  |
|     | 290 |     |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |  |  |  |  |  |  |
| Asn | Pro | Lys | Phe | Leu | Cys | Ala | Asp | Tyr | Ala | Glu | Gln | Asp | Glu | Leu | Asp |  |  |  |  |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |  |  |  |  |
| Tyr | His | Arg | Gly | Leu | Leu | Val | Asp | Arg | Pro | Ser | Glu | Thr | Lys | Thr | Glu |  |  |  |  |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |  |  |  |  |
| Glu | Gln | Gly | Ile | Pro | Arg | Pro | Leu | His | Pro | Pro | Pro | Pro | Pro | Pro | Val |  |  |  |  |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |  |  |  |  |  |  |
| Gln | Pro | Pro | Gln | His | Pro | Arg | Ala | Glu | Gln | Arg | Glu | Gln | Glu | Arg | Ala |  |  |  |  |  |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |  |  |  |  |  |  |
| Val | Arg | Glu | Gln | Trp | Ala | Glu | Arg | Glu | Arg | Glu | Met | Glu | Arg | Arg | Glu |  |  |  |  |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |  |  |  |  |
| Arg | Thr | Arg | Ser | Glu | Arg | Glu | Trp | Asp | Arg | Asp | Lys | Val | Arg | Glu | Gly |  |  |  |  |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |  |  |  |  |
| Pro | Arg | Ser | Arg | Ser | Arg | Ser | Arg | Xaa | Arg | Arg | Arg | Lys | Glu | Arg | Ala |  |  |  |  |  |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |  |  |  |  |  |
| Lys | Ser | Lys | Glu | Lys | Lys | Ser | Glu | Lys | Lys | Glu | Lys | Ala | Gln | Glu | Glu |  |  |  |  |  |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |  |  |  |  |
| Pro | Pro | Ala | Lys | Leu | Leu | Asp | Asp | Leu | Phe | Arg | Lys | Thr | Lys | Ala | Ala |  |  |  |  |  |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |  |  |  |  |  |
| Pro | Cys | Ile | Tyr | Trp | Leu | Pro | Leu | Thr | Asp | Ser | Gln | Ile | Val | Gln | Lys |  |  |  |  |  |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |  |  |  |  |  |
| Glu | Ala | Glu | Arg | Ala | Glu | Arg | Ala | Lys | Glu | Arg | Glu | Lys | Arg | Arg | Lys |  |  |  |  |  |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |  |  |  |  |  |
| Glu | Gln | Glu | Glu | Glu | Glu | Gln | Lys | Glu | Arg | Glu | Lys | Glu | Ala | Glu | Arg |  |  |  |  |  |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |  |  |  |  |  |  |
| Glu | Arg | Asn | Arg | Gln | Leu | Glu | Arg | Glu | Lys | Arg | Arg | Glu | His | Ser | Arg |  |  |  |  |  |  |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |  |  |  |  |  |  |
| Glu | Arg | Asp | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Asp | Arg | Gly | Asp |  |  |  |  |  |  |
|     |     | 515 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |

Val Arg Asp Arg Gly Gly Arg  
565

<210> 574

<211> 48

<212> PRT

<213> Homo sapiens

<400> 574

Glu Asn Asp Val Pro Glu Pro Pro Met Pro Ile Ala Asp Gln Val Ser  
1 5 10 15

Asn Asp Asp Arg Pro Glu Gly Ser Val Glu Asp Glu Glu Lys Lys Glu  
20 25 30

Ser Ser Leu Pro Lys Ser Phe Lys Arg Lys Ile Ser Val Val Ser Ala  
35 40 45

<210> 575

<211> 37

<212> PRT

<213> Homo sapiens

<400> 575

Val Asp Leu His Ala Asp Asp Ser Arg Ile Ser Glu Asp Glu Thr Glu  
1 5 10 15

Arg Asn Gly Asp Asp Gly Thr His Asp Lys Gly Leu Lys Ile Cys Arg  
20 25 30

Thr Val Thr Gln Val  
35

<210> 576

<211> 55

<212> PRT

<213> Homo sapiens

<400> 576

Pro Gln Val Ser Val Glu Val Ala Leu Pro Pro Pro Ala Glu His Glu  
1 5 10 15

Val Lys Lys Val Thr Leu Gly Asp Thr Leu Thr Arg Arg Ser Ile Ser  
20 25 30

Gln Gln Lys Ser Gly Val Ser Ile Thr Ile Asp Asp Pro Val Arg Thr  
35 40 45

Ala Gln Val Pro Ser Pro Pro  
50 55

<210> 577  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 577  
 Leu Lys Glu Leu Leu Gly Arg Thr Gly Thr Leu Val Glu Glu Ala Phe  
 1 5 10 15  
 Trp Ile Asp Lys Ile Lys Ser His Cys Phe Val Thr Tyr Ser Thr Val  
 20 25 30  
 Glu Glu Ala Val Ala Thr Arg Thr Ala Leu His Gly Val Lys Trp Pro  
 35 40 45  
 Gln Ser Asn Pro Lys Phe Leu  
 50 55

<210> 578  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 578  
 Val Asp Arg Pro Ser Glu Thr Lys Thr Glu Glu Gln Gly Ile Pro Arg  
 1 5 10 15  
 Pro Leu His Pro Pro Pro Pro Pro Val Gln Pro Pro Gln His Pro  
 20 25 30  
 Arg Ala Glu Gln Arg Glu Gln Glu Arg Ala Val Arg Glu Gln Trp Ala  
 35 40 45  
 Glu Arg Glu Arg Glu  
 50

<210> 579  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 579  
 Glu Trp Asp Arg Asp Lys Val Arg Glu Gly Pro Arg Ser Arg Ser Arg  
 1 5 10 15  
 Ser Arg Xaa Arg Arg Arg Lys Glu Arg Ala Lys Ser Lys Glu Lys Lys  
 20 25 30  
 Ser Glu Lys Lys Glu Lys Ala Gln Glu Glu Pro Pro Ala Lys Leu Leu  
 35 40 45

Asp Asp Leu Phe Arg Lys Thr Lys Ala Ala Pro  
 50 55

<210> 580  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 580  
 Pro Leu Thr Asp Ser Gln Ile Val Gln Lys Glu Ala Glu Arg Ala Glu  
 1 5 10 15

Arg Ala Lys Glu Arg Glu Lys Arg Arg Lys Glu Gln Glu Glu Glu  
 20 25 30

Gln Lys Glu Arg Glu Lys Glu Ala Glu Arg Glu Arg Asn Arg Gln Leu  
 35 40 45

Glu Arg Glu Lys Arg Arg Glu His Ser Arg Glu Arg Asp Arg Glu Arg  
 50 55 60

<210> 581  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 581  
 Leu Asp Val Pro Leu Ala Ser Arg Ser Pro Glu Phe Pro Leu Pro Leu  
 1 5 10 15

Met Thr Gln Ser Glu Leu Pro Arg Cys Pro Pro His Pro Gly Ala Arg  
 20 25 30

<210> 582  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 582  
 Leu Ala Thr Leu Ser Ile Ser Pro Ile Trp Ser Val Leu Ser Leu  
 1 5 10 15

<210> 583  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 583

Gly Cys Asp Ser Cys Pro Pro His Leu Pro Arg Glu Ala Phe Ala Gln  
 1 5 10 15

Asp Thr Gln Ala Glu Gly Glu Cys Ser Ser Arg Ala Glu Arg Ala Asp  
 20 25 30

Met Cys Pro Asp Ala Pro Pro Ser Gln Glu Val Pro Glu Gly Pro Gly  
 35 40 45

Ala Ala Pro  
 50

&lt;210&gt; 584

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

Arg Gly Trp Leu Pro Ser Ser Cys Leu Ser Cys Ala Leu Arg Val Cys  
 1 5 10 15

Pro Asp Ser Ser Ser Thr Gln Ala Met Gly Met Leu Leu Ala Phe Trp  
 20 25 30

Leu Pro Gly Ala Ser Trp Gln Glu Ala Ala Arg Gly Gln Tyr Ser Glu  
 35 40 45

Asp Glu Asp Thr Asp Thr Asp Glu Tyr Lys Glu Ala Lys Ala Ser Ile  
 50 55 60

Asn Pro Val Thr Gly Arg Val Glu Glu Lys Pro Pro Asn Pro Met Glu  
 65 70 75 80

Gly Met Thr Glu Glu Gln Lys Glu His Glu Ala  
 85 90

&lt;210&gt; 585

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 585

Thr Gln Ala Met Gly Met Leu Leu Ala Phe Trp Leu Pro Gly Ala Ser  
 1 5 10 15

Trp Gln Glu Ala Ala Arg Gly Gln Tyr Ser Glu  
 20 25

&lt;210&gt; 586

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 586

Pro Gln Leu Pro Ser Cys Gly Arg Pro Trp Pro Gly Thr Ala Ser Val  
 1 5 10 15

Phe Gln Ser His Thr Gln Gly Pro Arg Glu Asp Pro Asp Pro Cys Arg  
 20 25 30

Ala Gln Gly Ser Ala Gly Thr His Cys Pro Ile Ser Leu Ser Pro Pro  
 35 40 45

Arg Gln  
 50

<210> 587

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 587

Lys Thr His Pro Arg Ala Leu Trp Ser Ala Gly Pro Ser Cys Ala Leu  
 1 5 10 15

Cys Pro Gly Gly Ser Gly Xaa Thr Ser Pro Pro Gln Gly Ala Pro Arg  
 20 25 30

Gly Ile Xaa Trp Asp Arg Cys Pro Gln Ile Gln Val Leu Glu Gly Gln  
 35 40 45

Arg Val Arg Phe Pro Ser Gln Pro Gln His Pro Ser His Leu Ala Pro  
 50 55 60

Arg Gly Gly Cys Gly Trp Arg Pro Asp Ser Arg Pro Leu Leu Pro Thr  
 65 70 75 80

Pro Ser Gly Leu Ser Ser Phe Phe Pro Leu Asp Ala Gln Cys Trp Pro  
 85 90 95

Trp Arg Thr Val Ser Trp Arg  
 100

<210> 588

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE



<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 588

Ala Gly Ala Pro Gly Gln Gln Ala Arg Leu Gln Tyr Leu Leu Ser Phe  
1 5 10 15

Gln Gly Glu Gly Ala Pro His Glu Xaa Gly Ala Thr Gly Glu Gly Gly  
20 25 30

Asp Gly Ala Trp Glu Ala Cys Xaa Cys Xaa Arg Cys Leu Leu Asn Trp  
35 40 45

Gln Ala Gly Gly Trp Gly Leu Gln Leu Ser Leu Met Trp Leu His Arg  
50 55 60

Gly Pro Leu Arg Pro Pro Gly Val Arg Trp Thr Pro Trp Ala Phe Leu  
65 70 75 80

Glu Ala Cys Ser Trp Gly Pro Ala Leu Ser Leu Leu Gly Ser Gly His  
85 90 95

Ser Leu Pro Gly Thr His Glu Gln Ala Ala Trp Ser Arg Gly Cys Gly  
100 105 110

Gln His Gly Gln Ser Pro Thr Gln Lys Cys Lys Ser Ser Lys Glu Pro  
115 120 125

Leu Ala Gln Ala Pro Pro Trp Asp Ser Pro Ala Ala Pro Pro His Gln  
130 135 140

Gly Phe Ala Asp Val Leu Glu Arg Pro Thr Leu Glu Pro Phe Gly Val  
145 150 155 160

Leu Ala Pro Pro Val Pro Ser Ala Leu Val Glu Ala Ala Xaa Gln Val  
165 170 175

Leu Leu Arg Glu Pro Gln Gly Gly Phe Xaa Gly Thr Ala Ala His Arg

180

185

190

Ser Arg Cys Trp Lys Gly Ser Gly  
195 200

&lt;210&gt; 589

&lt;211&gt; 145

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (125)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (142)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 589

Met Gln Leu Leu Phe Leu Leu Pro His Pro Ser Pro Gln Leu His Ala  
1 5 10 15

Ser Leu Pro His Ser Ala Ala Leu Pro Cys Pro Arg Gly Glu Ser Leu  
20 25 30

Thr Thr Ala Ser Pro Ala Gly Ala Ala Gly Arg Xaa Asp Ala Val Pro  
35 40 45

Arg Cys Arg His Gln Ala Gly Arg Gly Trp Val Pro Arg Gly Pro Cys  
50 55 60

Glu Arg Gly Gly Gly Asp Arg Gly Lys Pro Arg Ala Val Ala Trp Asp  
65 70 75 80

Xaa Gly Ser Leu Arg Trp Ala Val Trp Ser Ala Arg Ala Gly Gln Gly  
85 90 95

Arg Ser Ser Glu Pro Ala Pro Leu Ala Ser Arg Arg Gly Tyr Ser Thr  
100 105 110

Cys Cys Leu Ser Arg Gly Lys Gly Leu Pro Met Arg Xaa Gly Arg Arg  
115 120 125

Gly Arg Gly Val Met Val Pro Gly Lys Pro Ala Cys Ala Xaa Gly Ala  
130 135 140

Cys  
145

<210> 590  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 590  
Gln His Pro Ser His Leu Ala Pro Arg Gly Gly Cys Gly Trp Arg Pro  
1 5 10 15  
Asp Ser Arg Pro Leu Leu Pro Thr Pro Ser Gly Leu Ser Ser Phe Phe  
20 25 30

Pro Leu

<210> 591  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 591  
Gly Val Arg Trp Thr Pro Trp Ala Phe Leu Glu Ala Cys Ser Trp Gly  
1 5 10 15  
Pro Ala Leu Ser Leu Leu Gly Ser Gly His Ser Leu Pro Gly  
20 25 30

<210> 592  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 592  
Trp Asp Ser Pro Ala Ala Pro Pro His Gln Gly Phe Ala Asp Val Leu  
1 5 10 15  
Glu Arg Pro Thr Leu Glu Pro Phe Gly Val Leu Ala  
20 25

<210> 593  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 593  
Arg Ser Ser Glu Pro Ala Pro Leu Ala Ser Arg Arg Gly Tyr Ser Thr  
1 5 10 15  
Cys Cys Leu Ser Arg Gly Lys Gly Leu Pro Met Arg  
20 25

&lt;210&gt; 594

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 594

Pro Gly Phe Arg Gly Pro Ser Gly Ser Leu Gly Cys Ser Phe Phe Pro  
 1 5 10 15

Arg Ser Leu Gly Arg Val Leu Pro Pro Gly Cys Gln Arg Pro Gly Ala  
 20 25 30

His Ala Asp Ser Ser Pro Pro Thr Pro  
 35 40

&lt;210&gt; 595

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 595

Glu Asp Leu Lys Lys Pro Asp Pro Ala Ser Leu Arg Ala Ala Ser Cys  
 1 5 10 15

Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys Gly Leu  
 20 25 30

Ala Glu Glu Leu Glu Lys Glu Lys Ser Arg Glu Gln Met Ser Ser Gln  
 35 40 45

Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys  
 50 55 60

Ala Ser Cys Pro Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys  
 65 70 75 80

Val Leu Leu Ser

&lt;210&gt; 596

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 596

Glu Asp Leu Lys Lys Pro Asp Pro Ala Ser Leu Arg Ala Ala Ser Cys  
 1 5 10 15

Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys Gly Leu  
 20 25 30

Ala Glu Glu Leu Glu Lys Glu Lys Ser Arg Glu Gln Met Ser Ser Gln  
 35 40 45

Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys  
 50 55 60

Ala Ser Cys Pro Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys  
 65 70 75 80

Val Leu Leu Ser Asp Ser Asn Leu His Asp  
 85 90

<210> 597

<211> 34

<212> PRT

<213> Homo sapiens

<400> 597

Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys Ala Ser Cys Pro  
 1 5 10 15

Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys Val Leu Leu Ser  
 20 25 30

Asp Ser

<210> 598

<211> 25

<212> PRT

<213> Homo sapiens

<400> 598

Ser Cys Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys  
 1 5 10 15

Gly Leu Ala Glu Glu Leu Glu Lys Glu  
 20 25

<210> 599

<211> 21

<212> PRT

<213> Homo sapiens

<400> 599

Ser Gln Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe  
 1 5 10 15

Arg Cys Ala Ser Cys  
 20

<210> 600

<211> 17

<212> PRT

<213> Homo sapiens

<400> 600

Arg Glu Ala Gly Gln Asn Ser Glu Arg Gln Tyr Val Ser Leu Ser Arg  
 1 5 10 15

Asp

<210> 601

<211> 16

<212> PRT

<213> Homo sapiens

<400> 601

Cys Cys Cys Val Ser Lys Asp Gln Gly Ile Met Gly Pro Gly Phe Arg  
 1 5 10 15

<210> 602

<211> 103

<212> PRT

<213> Homo sapiens

<400> 602

His Ser Val Thr Glu Leu Gln Thr Pro Ala Leu Ser Leu Ile Ser Ala  
 1 5 10 15

Met Leu Pro Pro Ser Cys Leu Ser Glu Leu Leu Val Tyr Ser Ile Leu  
 20 25 30

Cys Asp Thr Ser Gln Val Ala His Asn Leu Leu Arg Ala Pro Glu Asp  
 35 40 45

Ser Leu Thr Gly Cys Cys Asp Asp Ile Gln Cys Pro Ser Ala Pro Phe  
 50 55 60

His Pro Gln Pro His Leu Thr Val Ala Leu His Leu Cys Pro Val Val  
 65 70 75 80

Ile Tyr Val Asn Leu Gln Val Leu Asn Leu Leu His Ile Leu Thr Tyr  
 85 90 95

Leu Glu Ile Leu His Val Leu  
 100

<210> 603

<211> 24

<212> PRT

<213> Homo sapiens

<400> 603

Leu Leu Val Tyr Ser Ile Leu Cys Asp Thr Ser Gln Val Ala His Asn  
 1 5 10 15

Leu Leu Arg Ala Pro Glu Asp Ser

20

&lt;210&gt; 604

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 604

Leu Thr Val Ala Leu His Leu Cys Pro Val Val Ile Tyr Val Asn Leu  
 1 5 10 15

Gln Val Leu Asn Leu Leu His Ile Leu Thr  
 20 25

&lt;210&gt; 605

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 605

Phe Phe Asn Ala Leu Tyr Val Phe Arg Lys Pro Gln Ala Ile Phe Asp  
 1 5 10 15

Ser Glu Lys Glu Asn Lys Arg Lys Asn Pro Thr Lys Tyr Asn Asn Pro  
 20 25 30

Leu Arg Tyr Ile Tyr Phe Lys Val Lys Leu Ile Phe Gln Phe Ile Pro  
 35 40 45

Leu Ala Asn Tyr Lys Ile Lys  
 50 55

&lt;210&gt; 606

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 606

Glu Ser Ser Gly Gln Ala Arg Thr Leu Ala Asp Pro Gly Pro Gly Trp  
 1 5 10 15

Pro Arg Gln Gln Gly Met Cys Phe Gly Ser Leu Thr Gly Leu Ser Thr  
 20 25 30

Thr Pro His Gly Phe Leu Thr Val Ser Ala Glu Ala Asp Pro Arg Leu  
 35 40 45

Ile Glu Ser Leu Ser Gln Met Leu Ser Met Gly Phe Ser Asp Glu Gly  
 50 55 60

Gly Trp Leu Thr Arg Leu Leu Gln Thr Lys Asn Tyr Asp Ile Gly Ala  
 65 70 75 80

Ala Leu Asp Thr Ile Gln Tyr Ser Lys His  
 85 90

&lt;210&gt; 607

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 607

Tyr Ser Met Val Tyr Ile Tyr His Ile Phe Phe Ile His Ser Leu Leu  
 1 5 10 15

Asp Gly Gln Leu Gly Trp Phe His Ile Phe Ala Ile Val Ser Cys Ala  
 20 25 30

Ala Pro Asp Ile Ile Phe Asn Ser Phe Ala Phe Ser Thr Tyr Ile Ser  
 35 40 45

Lys Ser Cys Ser Phe Tyr Leu Gln Asn Val Ser Cys Ile His Ser Ser  
 50 55 60

Leu Ser Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met Glu  
 65 70 75 80

Glu Cys Asn Asn Trp Leu Thr Gly Leu Phe Leu His Phe Lys Ile Lys  
 85 90 95

Arg Cys Asp Arg  
 100

&lt;210&gt; 608

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 608

Leu Ser Pro Ser Pro Arg Cys Cys Pro Trp Ala Ser Leu Met Lys Ala  
 1 5 10 15

Ala Gly Ser Pro Gly Ser Cys Arg Pro Arg Thr Met Thr Ser Glu Arg  
 20 25 30

Leu Trp Thr Pro Ser Ser Ile Gln Ser Ile Pro Arg Arg Cys Asp His  
 35 40 45

Phe Cys Pro Pro Leu Leu Arg Ala Pro Leu Leu Ser His Ser Cys Val  
 50 55 60

Lys Leu Ala  
 65

&lt;210&gt; 609

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 609



Gly Trp Pro Arg Gln Gln Gly Met Cys Phe Gly Ser Leu Thr Gly Leu  
 1 5 10 15

Ser Thr Thr Pro His Gly Phe Leu Thr Val Ser Ala Glu Ala Asp Pro  
 20 25 30

Arg Leu

<210> 610

<211> 33

<212> PRT

<213> Homo sapiens

<400> 610

Leu Gly Trp Phe His Ile Phe Ala Ile Val Ser Cys Ala Ala Pro Asp  
 1 5 10 15

Ile Ile Phe Asn Ser Phe Ala Phe Ser Thr Tyr Ile Ser Lys Ser Cys  
 20 25 30

Ser

<210> 611

<211> 25

<212> PRT

<213> Homo sapiens

<400> 611

Ser Leu Ser Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met  
 1 5 10 15

Glu Glu Cys Asn Asn Trp Leu Thr Gly  
 20 25

<210> 612

<211> 30

<212> PRT

<213> Homo sapiens

<400> 612

Leu Met Lys Ala Ala Gly Ser Pro Gly Ser Cys Arg Pro Arg Thr Met  
 1 5 10 15

Thr Ser Glu Arg Leu Trp Thr Pro Ser Ser Ile Gln Ser Ile  
 20 25 30

<210> 613

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 613  
 Ser Ser Ser Ser Pro Arg Arg Pro Arg Glu Leu Leu Gly Ser Leu Lys  
   1                  5                  10                  15  
 Thr Pro Leu Val Arg Pro His Ser Ala Pro Leu Asp Leu Pro Gly Ser  
                   20                  25                  30  
 Phe Cys Xaa His Thr Ala Asp Pro Met Gly Ala Leu His Thr Arg Phe  
                   35                  40                  45  
 Trp Gly Arg Gln Thr Trp Ile His Arg Lys Leu Arg Leu His Gly Thr  
                   50                  55                  60  
 Ser Arg Leu Ala Ser Lys Xaa Gly Ile Gln Phe Leu Arg Asn Pro Ser  
   65                  70                  75                  80  
 Lys Thr His Thr Pro Arg Asp Ala Ala Phe Arg Asp Pro Gly Gln Thr  
                   85                  90                  95  
 Pro Asp Pro Gln Ser Leu Gln Ala Pro Ser Pro Ser Lys Cys Ser Ala  
                   100                  105                  110  
 Pro Asn Arg Ala Thr Ser Val Trp Ser Leu Lys Pro Arg Leu Leu Tyr  
                   115                  120                  125  
 Lys His Arg Pro Ser Ser Asp Lys Thr Pro Pro Pro Gly Arg Gln Ala  
   130                  135                  140  
 Pro Leu Leu Phe Phe Ser Ala Gly  
 145                  150

<210> 614  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 614  
 Phe Leu Arg Asn Pro Ser Lys Thr His Thr Pro Arg Asp Ala Ala Phe  
   1                  5                  10                  15  
 Arg Asp Pro Gly Gln Thr Pro Asp Pro Gln Ser Leu Gln Ala  
                   20                  25                  30

<210> 615  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val  
1 5 10 15

Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu  
20 25 30

Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Xaa Ala Val Arg Ser His  
35 40 45

His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile  
50 55 60

Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala  
65 70 75 80

Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe  
85 90 95

His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met  
100 105 110

Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val  
115 120 125

Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly  
130 135 140

Asp Arg Val Ser Leu Arg Leu Arg Arg Gly Xaa Ser Thr Gly Trp  
145 150 155

<213> Homo sapiens

Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile Tyr Phe Asp Gln Val  
1 5 10 15

Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val  
20 25 30

Ala Pro Val  
35

<210> 617  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 617  
 Asn Asp Pro Asp Val Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu  
           1                  5                  10                  15  
 Pro Leu Asp Pro Gly Asp Arg Val Ser  
                   20                  25

<210> 618  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 618  
 Phe His Val Val Lys Val Tyr Asn Arg Gln Thr  
           1                  5                  10

<210> 619  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 619  
 Ile Tyr Phe Asp Gln Val Leu Val Asn  
           1                  5

<210> 620  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 620  
 Glu Ser Arg Glu Arg Ser Gly Asn Arg Arg Gly Ala Glu Asp Arg Gly  
           1                  5                  10                  15  
 Thr Cys Gly Leu Gln Ser Pro Ser Ala  
                   20                  25

<210> 621  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <220>

> SITE  
 > (31)  
 > Xaa equals any of the naturally occurring L-amino acids

>  
 > SITE  
 > (34)  
 > Xaa equals any of the naturally occurring L-amino acids

>  
 > SITE  
 > (37)  
 > Xaa equals any of the naturally occurring L-amino acids

> 621

Met Pro Gln Phe Tyr Phe Phe Leu Lys Leu Gly Cys Leu Ala Gln  
                   5                  10                  15

Pro Met Gln Arg Gly Gly Ile Gly Ala Arg Gly Ser Xaa Xaa Pro  
           20                  25                  30

Xaa Ala Val Xaa Gly Ala Arg Glu Gly Arg Arg Lys Leu Ser Gly  
       35                  40                  45

Gly Phe Leu Cys Leu Lys Asp Leu Gly Pro Ser Glu Arg Glu Asp  
       50                  55                  60

Glu Ala Arg Glu Thr  
                   70

0> 622

.1> 27

.2> PRT

.3> Homo sapiens

00> 622

: Pro Gln Phe Tyr Phe Phe Leu Lys Leu Gly Cys Leu Ala Gln Val  
 1                  5                  10                  15

o Met Gln Arg Gly Gly Ile Gly Ala Arg Gly  
           20                  25

10> 623

11> 185

12> PRT

13> Homo sapiens

.00> 623

n Ala Thr Cys Ser Ala Ser Gly Ser Pro Gly Gln Phe Gly Gly Cys  
 1                  5                  10                  15

r Pro Ser Pro His Gly Thr Gly Ser Cys Arg His Pro Gly Gln Gly  
       20                  25                  30

u Arg Arg Ser Gln Arg Pro Gly Gln Ser His Arg Pro Arg Ser Pro  
       35                  40                  45

Gly Pro Gly Arg Ser Arg Trp Pro His Trp Cys His Cys Arg Phe Pro  
50 55 60

Leu Leu Ala His Gly Gly Gly Phe Gly Pro Gln Gln Met Pro Leu Ala  
65 70 75 80

Gln Gly Val Pro Leu Pro Gly Leu Leu Pro Arg Ala Pro Leu Gln Gln  
85 90 95

Leu Gly Gln Ala His Arg Pro Pro Gly Thr Pro Pro Pro Ala Gly Arg  
100 105 110

Ala Leu Thr Pro Pro Gly Pro Thr Arg Pro Pro Gly Pro Glu Ala Pro  
115 120 125

Glu Pro Arg Ala Ala Arg Asp Cys Val Gly Asp Leu Val Ala Ser Val  
130 135 140

Ala Trp Leu Pro Thr Trp Leu Arg Gly Ser Ala Thr His Lys Cys Pro  
145 150 155 160

Gly Leu Leu Pro Leu Phe Cys Phe Arg Ser Ser Pro Trp Ile Leu Thr  
165 170 175

Ala Gly Thr Leu Ile Val Cys Pro Leu  
180 185

<210> 624

<211> 25

<212> PRT

<213> Homo sapiens

<400> 624

Gly Cys Thr Pro Ser Pro His Gly Thr Gly Ser Cys Arg His Pro Gly  
1 5 10 15

Gln Gly Leu Arg Arg Ser Gln Arg Pro  
20 25

<210> 625

<211> 26

<212> PRT

<213> Homo sapiens

<400> 625

Ser Arg Trp Pro His Trp Cys His Cys Arg Phe Pro Leu Leu Ala His  
1 5 10 15

Gly Gly Gly Phe Gly Pro Gln Gln Met Pro  
20 25

<210> 626

<211> 28

<212> PRT

<213> Homo sapiens

<400> 626

Asp Cys Val Gly Asp Leu Val Ala Ser Val Ala Trp Leu Pro Thr Trp  
1 5 10 15

Leu Arg Gly Ser Ala Thr His Lys Cys Pro Gly Leu  
20 25

<210> 627

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 627

Asp Asp Arg Pro Arg Val Gln His Gln Ala His Leu Asp Ser Leu Ala  
1 5 10 15

Val Val His Leu His His Met Glu Pro Glu Ala Val Asp Thr Pro Asp  
20 25 30

Arg Gly Tyr Glu Gly Ala Arg Gly Pro Val Lys Ala Thr Ala Leu Val  
35 40 45

His Gln Asp Leu Val Glu Val Asp Gly Pro Thr Gly Ala Ile Ala Gly  
50 55 60

Phe Pro Cys Trp Leu Met Val Val Ala Ser Asp Arg Xaa Lys Cys His  
65 70 75 80

Ser Pro Arg Gly Cys Leu Ser Gln Gly Cys Ser Pro Gly Pro Pro Cys  
85 90 95

Ser Ser Ser Ala Arg Leu Thr Asp His Gln Ala Leu Pro Leu Gln Gln  
100 105 110

Asp Gly Leu  
115

<210> 628

<211> 31

<212> PRT

<213> Homo sapiens

<400> 628

Tyr Glu Gly Ala Arg Gly Pro Val Lys Ala Thr Ala Leu Val His Gln  
1 5 10 15

Asp Leu Val Glu Val Asp Gly Pro Thr Gly Ala Ile Ala Gly Phe  
20 25 30

&lt;210&gt; 629

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 629

Met Ala Pro Leu Val Pro Leu Pro Val Ser Pro Ala Gly Ser Trp Trp  
 1 5 10 15

Trp Leu Arg Thr Ala Xaa Asn Ala Thr Arg Pro Gly Gly Ala Ser Pro  
 20 25 30

Arg Ala Ala Pro Pro-Gly Pro Pro Ala Ala Ala Arg Pro Gly Ser Gln  
 35 40 45

Thr Thr Arg His Ser Pro Ser Ser Arg Thr Gly Ser Asp Pro Ser Trp  
 50 55 60

Ala His Pro Ala Pro Arg Ala Arg Ser Thr Arg Thr Lys Gly Ser Pro  
 65 70 75 80

Gly Leu Cys Arg Gly Pro Gly Ser Gln Cys Gly Leu Ala Pro Asn Met  
 85 90 95

Ala Glu Gly Leu Cys Asn Pro Gln Val Pro Arg Ser Ser Ala Pro Leu  
 100 105 110

Leu Phe Pro Leu Leu Ser Leu Asp Ser His Arg Arg His Pro Asp Ser  
 115 120 125

Leu Pro Ser Leu Gly Ser Leu Asn Pro Leu Ser Ile Pro Val Ser Gln  
 130 135 140

Leu Cys Pro Ala Ser His Ser Tyr Ser Cys Cys His Cys Ser Ser  
 145 150 155

&lt;210&gt; 630

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 630

Ser Ser Arg Thr Gly Ser Asp Pro Ser Trp Ala His Pro Ala Pro Arg  
 1 5 10 15

Ala Arg Ser Thr Arg Thr Lys Gly Ser Pro Gly Leu Cys  
 20 25

&lt;210&gt; 631

&lt;211&gt; 27



<212> PRT  
 <213> Homo sapiens

<400> 631

Arg Arg His Pro Asp Ser Leu Pro Ser Leu Gly Ser Leu Asn Pro Leu  
 1 5 10 15

Ser Ile Pro Val Ser Gln Leu Cys Pro Ala Ser  
 20 25

<210> 632

<211> 31

<212> PRT

<213> Homo sapiens

<400> 632

Ser Thr His Ala Ser Gly Pro Pro Ala Pro Glu Arg Leu Cys Leu Pro  
 1 5 10 15

Glu Arg Gly Thr Ala Pro Trp Gly Arg Arg Ala Asn Asp Ala Ala  
 20 25 30

<210> 633

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 633

Val Arg Arg Trp Trp Leu Arg Thr Met Gly Ala Ala Ala His Cys Thr  
 1 5 10 15

Pro Glu Gln Arg Arg Pro Arg Arg Pro Ala Thr Ile Leu Gly Met Asp  
 20 25 30

Thr Gln Asn Ile Leu His Thr Arg Leu Ser Leu Cys Ser Leu Ser Trp  
 35 40 45

Val Ser Leu Ala Ser Ser Phe Xaa Xaa Leu Ala Xaa Arg Arg Lys Ala  
 50 55 60

Ile Val Val Gln Gln Lys Gln Ser Lys Ile Ser Lys Lys Lys Lys Val  
 65 70 75 80

Glu Lys Xaa Xaa Leu Asn Asp Ser Val Asn Glu Asn Ser Asp Thr Val  
 85 90 95

Gly Gln Ile Val His Tyr Ile Met Lys Asn Glu Ala Asn Ala Asp Val  
 100 105 110

Leu Lys Ala Met Val Ala Asp Asn Ser Leu Tyr Asp Pro Glu Ser Pro  
 115 120 125

Val Thr Pro Ser Thr Pro Gly Ser Pro Pro Val Ser Pro Gly Leu Cys  
 130 135 140

His Gln Gly Gly Arg Gln Gly Ser Thr Ser Val Ala Ile Ile Cys Ile  
 145 150 155 160

Arg Trp Ala Val Xaa Ser Arg Gly Met Cys Val Ile Gly Val Gly Thr  
 165 170 175

Ser Gly Gly Thr Leu  
 180

&lt;210&gt; 634

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 634

Ile Met Lys Asn Glu Ala Asn Ala Asp Val Leu Lys Ala Met Val Ala  
 1 5 10 15

Asp Asn Ser Leu Tyr Asp Pro Glu Ser Pro Val Thr Pro  
 20 25

&lt;210&gt; 635

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 635

His Cys His Leu Trp Ala Ser Gly Ser Cys Leu Ala Cys Phe Phe Pro  
1 5 10 15

Gly Gly Leu Thr Arg Asp Ala Ala Gln Gln His Val Thr Lys Ser Tyr  
20 25 30

Ser Pro Pro Tyr Leu Ser Gln Thr Ser His Ser Cys Leu Val Phe Gln  
35 40 45

Pro Val Leu Trp Pro Glu Tyr Thr Phe Trp Asn Leu Phe Glu Ala Ile  
50 55 60

Leu Gln Phe Gln Met Asn His Ser Val Leu Gln Gln Xaa Gly Pro Arg  
65 70 75 80

His Val Cys Arg Gly Ala Glu Glu Ala Ala Ala Gly Glu Gly Pro Gly  
85 90 95

Tyr Ser Asp Arg Ala Ala Ala Ala Arg Gly Ala Pro Ser Gln Trp Gly  
100 105 110

Arg Pro Ala Pro Lys Asp Thr Leu Ala Gln Thr Leu Gly Gln Thr Gly  
115 120 125

Arg Ala Ser Pro Arg Leu Pro Ala Gly Leu Gly Thr Gln Ala Ser  
130 135 140

<210> 636

<211> 28

<212> PRT

<213> Homo sapiens

<400> 636

Pro Ala Pro Lys Asp Thr Leu Ala Gln Thr Leu Gly Gln Thr Gly Arg  
1 5 10 15

Ala Ser Pro Arg Leu Pro Ala Gly Leu Gly Thr Gln  
20 25

<210> 637

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 637

Thr Ile Ala Cys Phe Ser Xaa Lys Ala Arg Asp Met Tyr Ala Glu Glu

|   |    |    |    |
|---|----|----|----|
| 1   | 5  | 10 | 15 |
| Arg Lys Arg Gln Gln Leu Glu Arg Asp Gln Ala Thr Val Thr Glu Gln | 20 | 25 | 30 |
| Leu Leu Arg Glu Gly Leu Gln Ala Ser Gly Asp Ala Gln Leu Arg Arg | 35 | 40 | 45 |
| Thr Arg Leu His Lys Leu Ser Ala Arg Arg Glu Glu Arg Val Gln Gly | 50 | 55 | 60 |
| Phe Leu Gln Ala Leu Glu Leu Lys Arg Ala Asp Trp Leu Ala Arg Leu | 65 | 70 | 75 |
| Gly Thr Ala Ser Ala   | 85 |    |    |

<210> 638  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 638  
 Leu Arg Arg Thr Arg Leu His Lys Leu Ser Ala Arg Arg Glu Glu Arg  
 1 5 10 15  
 Val Gln Gly Phe Leu Gln Ala Leu Glu Leu Lys Arg  
 20 25

<210> 639  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 639  
 Lys Met Asn Ser Ile Pro Trp Gln Ile Pro Lys Ile Thr Pro Xaa Leu  
 1 5 10 15  
 Asp Ala Asn Leu Val Ile Val Glu Cys Lys Pro Leu Trp Phe Cys Ile  
 20 25 30  
 Gly Thr Ile Lys Gln Leu Lys Leu Trp Asn Gln Val Phe Met Gly Phe  
 35 40 45  
 Lys Ser Met Phe Phe Arg Ile Gly Lys Leu Asn Tyr Leu Phe Thr Ile  
 50 55 60  
 Pro Tyr Cys Tyr Leu Phe Ile Asp Asn Ile Leu Gly Ile Phe Tyr Ser  
 65 70 75 80  
 Ile Leu Gly Ala Gln Gly Ile Lys Tyr Asn Phe Tyr Ile Gln Arg Ile

85

90

95

Phe Thr Cys Leu Leu Asn Leu Asn Leu Lys Ile His Ser Asn Leu Ala  
 100 105 110

&lt;210&gt; 640

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 640

Leu Trp Phe Cys Ile Gly Thr Ile Lys Gln Leu Lys Leu Trp Asn Gln  
 1 5 10 15

Val Phe Met Gly Phe Lys Ser Met Phe Phe Arg  
 20 25

&lt;210&gt; 641

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 641

Tyr Ser Ile Leu Gly Ala Gln Gly Ile Lys Tyr Asn Phe Tyr Ile Gln  
 1 5 10 15

Arg Ile Phe Thr Cys Leu Leu Asn Leu Asn  
 20 25

&lt;210&gt; 642

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 642

Thr Phe Lys Leu Val Arg Phe Leu Glu  
 1 5

&lt;210&gt; 643

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

Pro Arg Ser Arg Pro Ala Leu Arg Pro Gly Arg Gln Arg Pro Pro Ser  
 1 5 10 15

His Ser Ala Thr Ser Gly Val Leu Arg Pro Arg Lys Lys Pro Asp Pro  
 20 25 30

<210> 644  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 644  
 Arg Lys Ser Phe Ala Lys Pro Val Leu Trp Thr Asn Ala Ile Gln Ala  
           1                  5                  10                  15  
 Gly Arg Gly Arg Val Leu Cys Tyr Thr Arg Pro Pro Pro Ala Ser Ser  
                   20                  25                  30  
 Ser Phe Ser Ala Leu Val Pro Asp Gly Asn Arg Met Glu Gly Leu Arg  
           35                  40                  45  
 Thr Tyr Phe Leu Asn Ala Phe Asp Pro Gly Thr Asp Tyr Leu Tyr Leu  
           50                  55                  60  
 Phe Pro Phe Ser Phe Thr Val Thr Phe Gln His Cys Leu Thr Val Arg  
           65                  70                  75                  80  
 Trp Ala Phe Glu Ser Leu Gln Val Pro Gln Asn Arg Pro Glu Arg Trp  
                   85                  90                  95  
 Ala Ser His Pro Leu Pro Thr His Xaa Pro Ala Tyr Leu Pro Asp Asn  
                   100                  105                  110  
 Gln Val Xaa Met Ser Ala Ser Gly  
           115                  120

<210> 645  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 645  
 Gly Asn Arg Met Glu Gly Leu Arg Thr Tyr Phe Leu Asn Ala Phe Asp  
           1                  5                  10                  15  
 Pro Gly Thr Asp Tyr Leu Tyr Leu Phe  
           20                  25

<210> 646

<211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 646  
 Phe Gln His Cys Leu Thr Val Arg Trp Ala Phe Glu Ser Leu Gln Val  
           1                  5                  10                  15  
 Pro Gln Asn Arg Pro Glu Arg Trp Ala Ser His Pro Leu Pro  
                   20                  25                  30

<210> 647  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 647  
 Met Thr Leu Ile Thr Pro Ser Xaa Lys Leu Thr Phe Xaa Lys Gly Asn  
           1                  5                  10                  15  
 Lys Ser Trp Ser Ser Arg Ala Cys Ser Ser Thr Leu Val Asp Pro  
                   20                  25                  30

<210> 648  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 648  
 Phe Leu Phe Leu His Ala Val Asp Pro Trp Pro Ser Asn Gly  
           1                  5                  10

<210> 649  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 649  
 Trp Ser Cys Gln Ser Gly Val Phe Leu Val Phe Thr Gly Cys Ser Val  
           1                  5                  10                  15  
 Leu Cys Gln Met Leu Ser Gly Ala Val Val Val Trp Arg Arg Ser Ala  
                   20                  25                  30

Pro Glu Asp Ser Ala Val Trp Gln Ala Ser Ile Asn Lys Pro Arg Gly

35 40 45  
 Lys Gly Arg His Gly Ile Lys Gly Glu Asn Thr Ser Val  
 50 55 60

<210> 650  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 650  
 Leu Val Phe Thr Gly Cys Ser Val Leu Cys Gln Met Leu Ser Gly Ala  
 1 5 10 15  
 Val Val Val Trp Arg Arg Ser Ala Pro Glu Asp Ser Ala Val Trp Gln  
 20 25 30

Ala Ser Ile  
 35

<210> 651  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 651  
 Gly His Pro Ser Pro Ala Leu Ser Ile Ala Pro Ser Asp Gly Ser Gln  
 1 5 10 15  
 Leu Pro Cys Asp Glu Val Pro Tyr Gly Glu Ala His Val Thr Arg Tyr  
 20 25 30

Cys Lys Lys Pro Leu Thr Asn Ser His Leu Glu Thr Glu Ala Gln Ser  
 35 40 45

Ser Ser Leu  
 50

<210> 652  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 652  
 Asn Asn Lys His Tyr Leu Ser Phe Cys Gly Ser Gly Phe Cys Pro Val



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1   | 5   | 10  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |
| Tyr | Leu | Gly | Phe | Thr | Gly | Leu | Ala | Ser | His | Gln | Ala | Val | Lys | Val | Leu |
|     | 20  |     |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Val | Ala | Val | Ile | Ile | Pro | Arg | Gln | Asp | Arg | Glu | Arg | Ile | Cys | Leu |
|     | 35  |     |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gln | Ala | Gln | Val | Gly | Arg | Ile | His | Leu | Arg | Gly | Cys | Trp | Thr | Gly | Pro |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Pro | Phe | Leu | Asp | Gly | Tyr | Trp | Ser | Glu | Ala | Phe | Tyr | Asn | Thr | Leu | Ser |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Arg | Gly | Pro | Leu | His | Arg | Ala | Pro | His | His | Met | Ala | Thr | Gly | Phe | His |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gln | Arg | Glu | Gln | Trp | Lys | Glu | Gln | Glu | Lys | Gly | Asp | Gln | Gly | Arg | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Ser | Leu | Leu | Val | Ala | Ser | Pro | Gln | Lys | Arg | Cys | Tyr | Phe | Cys | Cys |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ile | Leu | Xaa | Val | Arg | Ser | Glu | Ser | Leu | Gly | Pro | Gly | Val | Glu | Phe | Tyr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Xaa | Gly | Val | Asn | Gly | Arg | Arg |     |     |     |     |     |     |     |     |     |
|     | 145 |     |     |     | 150 |     |     |     |     |     |     |     |     |     |     |

<210> 653  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 653  
 Glu Arg Ile Cys Leu Gln Ala Gln Val Gly Arg Ile His Leu Arg Gly  
 1 5 10 15  
 Cys Trp Thr Gly Pro Pro Phe Leu Asp Gly Tyr Trp Ser Glu Ala Phe  
 20 25 30

<210> 654  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 654  
 Ser Asp Gly Ser Gln Leu Pro Cys Asp Glu Val Pro Tyr Gly Glu Ala  
 1 5 10 15  
 His Val Thr Arg Tyr Cys Lys Lys Pro Leu  
 20 25

<210> 655  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 655  
 His Gln Arg Glu Gln Trp Lys Glu Gln Glu Lys Gly Asp Gln Gly Arg  
           1                  5                  10                  15  
 His Arg Ser Leu Leu Val Ala Ser Pro Gln Lys  
                   20                  25

<210> 656  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 656  
 GCTTCGTGTC CAACCCTCTT GCCCTTCGCC TGTGTGCCTG GAGCCAGTCC CACCACGCTC 60  
 GCGTTTCCTC CTGTAGTGCT CACAGGTCCC AGCACCGATG GCATTCCCTT TGCCCTGAGT 120  
 CTGCAGCGGG TCCCTTTTGT GCTTCCTTCC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC 180  
 TCCCGGGGGT GAGGGGGTTA CCCCTTCCCA GTGTTTTTTA TTCCTGTGGG GCTCACCCCA 240  
 AAGTATTAAA AGTAGCTTTG TAA 263

<210> 657  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 657  
 GCTTCGTGTC CAACCCTCTT GCCCTTCGCC TGTGTGCCTG GAGCCAGTCC CACCACGCTC 60  
 GCGTTTCCTC CTGTAGTGCT CACAGGTCCC AGCACCGATG GCATTCCCTT TGCCCTGAGT 120  
 CTGCAGCGGG TCCCTTTTGT GCTTCCTTCC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC 180  
 TCCCGGGGGT GAGGGGGTTA CCCCTTCCCA GTGTTTTTTA TTCCTGTGGG GCTCACCCCA 240  
 AAGTATTAAA AGTAGCTTTG TAA 263

<210> 658  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 658  
 GCTTCGTGTC CAACCCTCTT GCCCTTCGCC TGTGTGCCTG GAGCCAGTCC CACCACGCTC 60

GCGTTTCCTC CTGTAGTGCT CACAGGTCCC AGCACCGATG GCATTCCCTT TGCCCTGAGT 120  
 CTGCAGCGGG TCCCTTTTGT GCTTCCTTCC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC 180  
 TCCCGGGGGT GAGGGGGTTA CCCCTTCCCA GTGTTTTTTA TTCCTGTGGG GCTCACCCCA 240  
 AAGTATTAAA AGTAGCTTTG TAA 263

<210> 659

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 659

Phe Arg Ile Asn Arg Leu Thr Ile Gly Xaa Ala Val Ala Met Thr Arg  
 1 5 10 15

Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys Asn Met Lys Lys Gln Ser  
 20 25 30

Asp Ser Val Lys Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala  
 35 40 45

Arg Lys Gln Arg Asp Ser Glu Ile  
 50 55

<210> 660

<211> 29

<212> PRT

<213> Homo sapiens

<400> 660

Ala Val Ala Met Thr Arg Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys  
 1 5 10 15

Asn Met Lys Lys Gln Ser Asp Ser Val Lys Gly Lys Arg  
 20 25

<210> 661

<211> 110

<212> PRT

<213> Homo sapiens

<400> 661

Lys Ser Arg Ala Thr Arg Leu Arg Glu Ser Ala Glu Met Thr Gly Phe  
 1 5 10 15

Leu Leu Pro Pro Ala Ser Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser  
 20 25 30

Arg Lys Arg Gln Thr Arg Arg Arg Arg Asn Pro Ser Ser Phe Val Ala  
35 40 45

Ser Cys Pro Thr Leu Leu Pro Phe Ala Cys Val Pro Gly Ala Ser Pro  
50 55 60

Thr Thr Leu Ala Phe Pro Pro Val Val Leu Thr Gly Pro Ser Thr Asp  
65 70 75 80

Gly Ile Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro  
85 90 95

Ser Pro Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly  
100 105 110

<210> 662

<211> 26

<212> PRT

<213> Homo sapiens

<400> 662

Leu Arg Glu Ser Ala Glu Met Thr Gly Phe Leu Leu Pro Pro Ala Ser  
1 5 10 15

Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser  
20 25

<210> 663

<211> 30

<212> PRT

<213> Homo sapiens

<400> 663

Val Val Leu Thr Gly Pro Ser Thr Asp Gly Ile Pro Phe Ala Leu Ser  
1 5 10 15

Leu Gln Arg Val Pro Phe Val Leu Pro Ser Pro Gln Val Ala  
20 25 30

<210> 664

<211> 59

<212> PRT

<213> Homo sapiens

<400> 664

Leu Leu Ser Thr Ser His Leu Leu Thr Gln Ser Tyr Ser Phe Asn Lys  
1 5 10 15

Arg Ser His Ser Phe Ala Trp Lys Asn Ala His Cys Ile Leu Gln Ser  
20 25 30

Glu Asn Asn Glu Leu Gln Asn Ser Val Tyr Ile Tyr Val Cys Ile Tyr  
35 40 45

Val His Phe Ile Cys Thr Phe Leu Cys Asp Ile  
50 55

<210> 665  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 665  
Lys Arg Ser His Ser Phe Ala Trp Lys Asn Ala His Cys Ile Leu Gln  
1 5 10 15

Ser Glu Asn Asn Glu Leu Gln Asn Ser Val Tyr Ile Tyr Val Cys Ile  
20 25 30

<210> 666  
<211> 160  
<212> DNA  
<213> Homo sapiens

<400> 666  
TGGCTCACTG TCTTACAATC ACTGCTGTGG AATCATGATA CCACTTTTAG CTCTTTGCAT 60  
CTTCCTTCAG TGTATTTTTG TTTTCAAGA GGAAGTAGAT TTAACTGGA CAACTTTGAG 120  
TACTGACATC ATTGATAAAT AACTGGCTT GTGGTTTCAA 160

<210> 667  
<211> 292  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 667  
Leu Asp Glu Leu Met Ala His Leu Thr Glu Met Gln Ala Lys Val Ala  
1 5 10 15

Val Arg Ala Asp Ala Gly Lys Lys His Leu Pro Asp Lys Gln Asp His  
20 25 30

Lys Ala Ser Leu Asp Ser Met Leu Gly Gly Leu Glu Gln Glu Leu Gln  
35 40 45

Asp Leu Gly Ile Ala Thr Val Pro Lys Gly His Cys Ala Ser Cys Gln  
50 55 60

Lys Pro Ile Ala Gly Lys Val Ile His Ala Leu Gly Gln Ser Trp His

|   |     |     |     |
|---|-----|-----|-----|
| 65  | 70  | 75  | 80  |
| Pro Glu His Phe Val Cys Thr His Cys Lys Glu Glu Ile Gly Ser Ser | 85  | 90  | 95  |
| Pro Phe Phe Glu Arg Ser Gly Leu Xaa Tyr Cys Pro Asn Asp Tyr His | 100 | 105 | 110 |
| Gln Leu Phe Ser Pro Arg Cys Ala Tyr Cys Ala Ala Pro Ile Leu Asp | 115 | 120 | 125 |
| Lys Val Leu Thr Ala Met Asn Gln Thr Trp His Pro Glu His Phe Phe | 130 | 135 | 140 |
| Cys Ser His Cys Gly Glu Val Phe Gly Ala Glu Gly Phe His Glu Lys | 145 | 150 | 155 |
| Asp Lys Lys Pro Tyr Cys Arg Lys Asp Phe Leu Ala Met Phe Ser Pro | 165 | 170 | 175 |
| Lys Cys Gly Gly Cys Asn Arg Pro Val Leu Glu Asn Tyr Leu Ser Ala | 180 | 185 | 190 |
| Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys Gly Asp Cys Phe | 195 | 200 | 205 |
| Thr Ser Phe Ser Thr Gly Ser Phe Phe Glu Leu Asp Gly Arg Pro Phe | 210 | 215 | 220 |
| Cys Glu Leu His Tyr His His Arg Arg Gly Thr Leu Cys His Gly Cys | 225 | 230 | 235 |
| Gly Gln Pro Ile Thr Gly Arg Cys Ile Ser Ala Met Gly Tyr Lys Phe | 245 | 250 | 255 |
| His Pro Glu His Phe Val Cys Ala Phe Cys Leu Thr Gln Leu Ser Lys | 260 | 265 | 270 |
| Gly Ile Phe Arg Glu Gln Asn Asp Lys Thr Tyr Cys Gln Pro Cys Phe | 275 | 280 | 285 |
| Asn Lys Leu Phe   | 290 |     |     |

&lt;210&gt; 668

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 668

|   |   |   |    |    |
|---|---|---|----|----|
| Lys Ala Ser Leu Asp Ser Met Leu Gly Gly Leu Glu Gln Glu Leu Gln | 1 | 5 | 10 | 15 |
|---|---|---|----|----|

|   |    |    |    |
|---|----|----|----|
| Asp Leu Gly Ile Ala Thr Val Pro Lys Gly His Cys Ala Ser Cys Gln | 20 | 25 | 30 |
|---|----|----|----|

Lys Pro Ile Ala Gly Lys Val Ile His Ala Leu

35

40

&lt;210&gt; 669

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

Cys Pro Asn Asp Tyr His Gln Leu Phe Ser Pro Arg Cys Ala Tyr Cys  
 1 5 10 15

Ala Ala Pro Ile Leu Asp Lys Val Leu Thr Ala Met Asn Gln Thr Trp  
 20 25 30

His Pro Glu His Phe Phe Cys Ser His Cys Gly Glu Val Phe Gly Ala  
 35 40 45

Glu Gly  
 50

&lt;210&gt; 670

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 670

Asp Lys Lys Pro Tyr Cys Arg Lys Asp Phe Leu Ala Met Phe Ser Pro  
 1 5 10 15

Lys Cys Gly Gly Cys Asn Arg Pro Val Leu Glu Asn Tyr Leu Ser Ala  
 20 25 30

Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys Gly Asp Cys Phe  
 35 40 45

Thr Ser Phe Ser Thr Gly Ser Phe Phe Glu Leu Asp Gly Arg Pro Phe  
 50 55 60

Cys Glu Leu  
 65

&lt;210&gt; 671

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

Cys Gly Gln Pro Ile Thr Gly Arg Cys Ile Ser Ala Met Gly Tyr Lys  
 1 5 10 15

Phe His Pro Glu His Phe Val Cys Ala Phe Cys Leu Thr Gln Leu Ser  
 20 25 30

Lys Gly Ile Phe Arg Glu Gln Asn Asp Lys Thr Tyr Cys Gln  
 35 40 45

<210> 672  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 672

His Lys Ser Leu Ala Gly Ala Xaa Val Tyr Thr Thr Asn Ile Gln Glu  
 1 5 10 15

Leu Asn Val Tyr Ser Glu Ala Gln Glu Pro Lys Glu Ser Pro Pro Pro  
 20 25 30

Ser Lys Thr Ser Ala Ala Ala Gln Leu Asp Glu Leu Met Ala His Leu  
 35 40 45

Thr Glu Met Gln Ala Lys Val Ala Val Arg Ala Asp Ala Gly Lys Lys  
 50 55 60

His Leu Pro Asp Lys Gln Asp His Lys Ala Ser Leu Asp Ser Met Leu  
 65 70 75 80

Gly Gly Leu Glu Gln Glu Leu Gln Asp Leu Gly Ile Ala Thr Val Pro  
 85 90 95

Lys Gly His Cys Ala Ser Cys Gln Lys Pro Ile Ala Gly Lys Val Ile  
 100 105 110

His Ala Leu Gly Gln Ser Trp His Pro Glu His Phe Val Cys Thr His  
 115 120 125

Cys Lys Glu Glu Ile Gly Ser Ser Pro Phe Phe Glu Arg Ser Gly Leu  
 130 135 140

Xaa Tyr Cys Pro Asn Asp Tyr His Gln Leu Phe Ser Pro Arg Cys Ala  
 145 150 155 160

Tyr Cys Ala Ala Pro Ile Leu Asp Lys Val Leu Thr Ala Met Asn Gln  
 165 170 175

Thr Trp His Pro Glu His Phe Phe Cys Ser His Cys Gly Glu Val Phe  
 180 185 190

Gly Ala Glu Gly Phe His Glu Lys Asp Lys Lys Pro Tyr Cys Arg Lys  
 195 200 205

Asp Phe Leu Ala Met Phe Ser Pro Lys Cys Gly Gly Cys Asn Arg Pro



|   |     |         |
|---|-----|---------|
| 210   | 215 | 220     |
| Val Leu Glu Asn Tyr Leu Ser Ala Met Asp Thr Val Trp His Pro Glu |     |         |
| 225   | 230 | 235 240 |
| Cys Phe Val Cys Gly Asp Cys Phe Thr Ser Phe Ser Thr Gly Ser Phe |     |         |
|   | 245 | 250 255 |
| Phe Glu Leu Asp Gly Arg Pro Phe Cys Glu Leu His Tyr His His Arg |     |         |
|   | 260 | 265 270 |
| Arg Gly Thr Leu Cys His Gly Cys Gly Gln Pro Ile Thr Gly Arg Cys |     |         |
|   | 275 | 280 285 |
| Ile Ser Ala Met Gly Tyr Lys Phe His Pro Glu His Phe Val Cys Ala |     |         |
|   | 290 | 295 300 |
| Phe Cys Leu Thr Gln Leu Ser Lys Gly Ile Phe Arg Glu Gln Asn Asp |     |         |
| 305   | 310 | 315 320 |
| Lys Thr Tyr Cys Gln Pro Cys Phe Asn Lys Leu Phe Pro Leu         |     |         |
|   | 325 | 330     |

<210> 673  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 673  
 Asn Val Tyr Ser Glu Ala Gln Glu Pro Lys Glu Ser Pro Pro Ser  
 1 5 10 15

Lys Thr Ser Ala Ala Ala  
 20

<210> 674  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 674  
 Asp Ser Met Leu Gly Gly Leu Glu Gln Glu Leu Gln Asp Leu Gly Ile  
 1 5 10 15

Ala Thr Val Pro Lys Gly His Cys Ala Ser  
 20 25

<210> 675  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 675  
 Tyr Leu Ser Ala Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys  
 1 5 10 15

Gly Asp Cys Phe Thr Ser Phe Ser Thr Gly  
           20                          25

<210> 676  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 676  
 Arg Cys Ile Ser Ala Met Gly Tyr Lys Phe His Pro Glu His Phe Val  
   1                  5                  10                  15

Cys Ala Phe Cys Leu Thr Gln Leu Ser Lys  
           20                          25

<210> 677  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 677  
 Pro Thr Arg Pro Val Leu Phe Phe Ser Thr Cys Gln Ser Cys Ser Ser  
   1                  5                  10                  15

Arg Pro Val Arg Gln Glu His Leu Gly Cys Arg Thr Met Glu Glu Leu  
           20                  25                  30

Asp Ala Leu Leu Glu Glu Leu Glu Arg Ser Thr Leu Gln Asp Ser Asp  
           35                  40                  45

Glu Tyr Ser Asn Pro Ala Pro Leu Pro Leu Asp Gln His Ser Arg Lys  
           50                  55                  60

Glu Thr Asn Leu Asp Glu Thr Ser Glu Ile Leu Ser Ile Gln Asp Asn  
   65                  70                  75                  80

Thr Ser Pro Leu Pro Ala Xaa Ser Cys Ile Leu Pro Ile Ser Arg Ser  
           85                  90                  95

Ser Met Ser Thr Val Lys Pro Lys Ser Gln Arg Asn His His His Leu  
           100                  105                  110

Leu Lys Arg Gln Gln Leu Leu Ser Trp Met Ser Ser Trp Leu Thr  
           115                  120                  125

<210> 678  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 678

Pro Val Arg Gln Glu His Leu Gly Cys Arg Thr Met Glu Glu Leu Asp  
 1 5 10 15

Ala Leu Leu Glu Glu Leu Glu Arg Ser Thr Leu Gln  
 20 25

&lt;210&gt; 679

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 679

Ser Cys Ile Leu Pro Ile Ser Arg Ser Ser Met Ser Thr Val Lys Pro  
 1 5 10 15

Lys Ser Gln Arg Asn  
 20

&lt;210&gt; 680

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 680

Trp His Pro Glu His Phe Val Cys Thr His Cys  
 1 5 10

&lt;210&gt; 681

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 681

Leu Phe Ser Pro Arg Cys  
 1 5

&lt;210&gt; 682

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 682

Pro Ile Leu Asp Lys Val  
 1 5

&lt;210&gt; 683

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 683

Thr Trp His Pro Glu His Phe Phe  
1 5

<210> 684  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 684  
Glu Gly Phe His Glu Lys Asp  
1 5

<210> 685  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 685  
Lys Phe His Pro Glu His Phe Val Cys Ala Phe Cys Leu  
1 5 10

<210> 686  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 686  
Pro Ile Thr Gly Arg Cys Ile  
1 5

<210> 687  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 687  
His Pro Glu His Phe Val Cys  
1 5

<210> 688  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 688  
Arg Ile Tyr Cys Ser Glu Asp Thr Phe Ser Pro Xaa Ala Glu Ser Gly  
1 5 10 15

Val Ser Trp Gln Ser Ser Val Ser Gln Leu Tyr Gln Asp Tyr Glu  
 20 25 30

<210> 689

<211> 452

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 689

Met Gly Ser Ser Gln Ser Val Glu Ile Pro Gly Gly Gly Thr Glu Gly  
 1 5 10 15

Tyr His Val Leu Arg Val Gln Glu Asn Ser Pro Gly His Arg Ala Gly  
 20 25 30

Leu Glu Pro Phe Phe Asp Phe Ile Val Ser Ile Asn Gly Ser Arg Leu  
 35 40 45

Asn Lys Asp Asn Asp Thr Leu Lys Asp Leu Leu Lys Xaa Asn Val Glu  
 50 55 60

Lys Pro Val Lys Met Leu Ile Tyr Ser Ser Lys Thr Leu Glu Leu Arg  
 65 70 75 80

Glu Thr Ser Val Thr Pro Ser Asn Leu Trp Gly Gly Gln Gly Leu Leu  
 85 90 95

Gly Val Ser Ile Arg Phe Cys Ser Phe Asp Gly Ala Asn Glu Asn Val  
 100 105 110

Trp His Val Leu Glu Val Glu Ser Asn Ser Pro Ala Ala Leu Ala Gly  
 115 120 125

Leu Arg Pro His Ser Asp Tyr Ile Ile Gly Ala Asp Thr Val Met Asn  
 130 135 140

Glu Ser Glu Asp Leu Phe Ser Leu Ile Glu Thr His Glu Ala Lys Pro  
 145 150 155 160

Leu Lys Leu Tyr Val Tyr Asn Thr Asp Thr Asp Asn Cys Arg Glu Val  
 165 170 175

Ile Ile Thr Pro Asn Ser Ala Trp Gly Gly Glu Gly Ser Leu Gly Cys  
 180 185 190

Gly Ile Gly Tyr Gly Tyr Leu His Arg Ile Pro Thr Arg Pro Phe Glu  
 195 200 205

Glu Gly Lys Lys Ile Ser Leu Pro Gly Gln Met Ala Gly Thr Pro Ile  
 210 215 220

Thr Pro Leu Lys Asp Gly Phe Thr Glu Val Gln Leu Ser Ser Val Asn

|   |     |     |     |
|---|-----|-----|-----|
| 225   | 230 | 235 | 240 |
| Pro Pro Ser Leu Ser Pro Pro Gly Thr Thr Gly Ile Glu Gln Ser Leu | 245 | 250 | 255 |
| Thr Gly Leu Ser Ile Ser Ser Thr Pro Pro Ala Val Ser Ser Val Leu | 260 | 265 | 270 |
| Ser Thr Gly Val Pro Thr Val Pro Leu Leu Pro Pro Gln Val Asn Gln | 275 | 280 | 285 |
| Ser Leu Thr Ser Val Pro Pro Met Asn Pro Ala Thr Thr Leu Pro Gly | 290 | 295 | 300 |
| Leu Met Pro Leu Pro Ala Gly Leu Pro Asn Leu Pro Asn Leu Asn Leu | 305 | 310 | 315 |
| Asn Leu Pro Ala Pro His Ile Met Pro Gly Val Gly Leu Pro Glu Leu | 325 | 330 | 335 |
| Val Asn Pro Gly Leu Pro Pro Leu Pro Ser Met Pro Pro Arg Asn Leu | 340 | 345 | 350 |
| Pro Gly Ile Ala Pro Leu Pro Leu Pro Ser Glu Phe Leu Pro Ser Phe | 355 | 360 | 365 |
| Pro Leu Val Pro Glu Ser Ser Ser Ala Ala Ser Ser Gly Glu Leu Leu | 370 | 375 | 380 |
| Ser Ser Leu Pro Pro Thr Ser Asn Ala Pro Ser Asp Pro Ala Thr Thr | 385 | 390 | 395 |
| Thr Ala Lys Ala Asp Ala Ala Ser Ser Leu Thr Val Asp Val Thr Pro | 405 | 410 | 415 |
| Pro Thr Ala Lys Ala Pro Thr Thr Val Glu Asp Arg Val Gly Asp Ser | 420 | 425 | 430 |
| Thr Pro Val Ser Glu Lys Pro Val Ser Ala Ala Val Asp Ala Asn Ala | 435 | 440 | 445 |
| Ser Glu Ser Pro   | 450 |     |     |

<210> 690  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 690  
 Ser Val Glu Ile Pro Gly Gly Gly Thr Glu Gly Tyr His Val Leu Arg  
 1 5 10 15

Val Gln Glu Asn Ser Pro Gly His Arg Ala Gly Leu Glu Pro Phe Phe  
 20 25 30

Asp Phe Ile Val Ser Ile Asn Gly Ser Arg Leu Asn Lys Asp Asn Asp  
 35 40 45

Thr Leu Lys Asp Leu Leu Lys Xaa Asn Val Glu Lys Pro Val Lys Met  
 50 55 60

Leu Ile Tyr Ser Ser Lys Thr Leu Glu Leu Arg Glu Thr Ser Val Thr  
 65 70 75 80

Pro Ser Asn Leu Trp Gly Gly Gln Gly Leu Leu Gly Val Ser Ile Arg  
 85 90 95

Phe Cys Ser Phe Asp Gly Ala Asn Glu Asn Val Trp His  
 100 105

<210> 691

<211> 145

<212> PRT

<213> Homo sapiens

<400> 691

Glu Ser Asn Ser Pro Ala Ala Leu Ala Gly Leu Arg Pro His Ser Asp  
 1 5 10 15

Tyr Ile Ile Gly Ala Asp Thr Val Met Asn Glu Ser Glu Asp Leu Phe  
 20 25 30

Ser Leu Ile Glu Thr His Glu Ala Lys Pro Leu Lys Leu Tyr Val Tyr  
 35 40 45

Asn Thr Asp Thr Asp Asn Cys Arg Glu Val Ile Ile Thr Pro Asn Ser  
 50 55 60

Ala Trp Gly Gly Glu Gly Ser Leu Gly Cys Gly Ile Gly Tyr Gly Tyr  
 65 70 75 80

Leu His Arg Ile Pro Thr Arg Pro Phe Glu Glu Gly Lys Lys Ile Ser  
 85 90 95

Leu Pro Gly Gln Met Ala Gly Thr Pro Ile Thr Pro Leu Lys Asp Gly  
 100 105 110

Phe Thr Glu Val Gln Leu Ser Ser Val Asn Pro Pro Ser Leu Ser Pro  
 115 120 125

Pro Gly Thr Thr Gly Ile Glu Gln Ser Leu Thr Gly Leu Ser Ile Ser  
 130 135 140

Ser  
 145

<210> 692

<211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 692

Glu Ser Asn Ser Pro Ala Ala Leu Ala Gly Leu Arg Pro His Ser Asp  
 1 5 10 15  
 Tyr Ile Ile Gly Ala Asp Thr Val Met Asn Glu Ser Glu Asp Leu Phe  
 20 25 30  
 Ser Leu Ile Glu Thr His Glu Ala Lys Pro Leu Lys Leu Tyr Val Tyr  
 35 40 45  
 Asn Thr Asp Thr Asp Asn Cys Arg Glu Val Ile Ile Thr Pro Asn Ser  
 50 55 60  
 Ala Trp Gly Gly Glu Gly Ser Leu Gly Cys Gly Ile Gly Tyr Gly Tyr  
 65 70 75 80  
 Leu His Arg Ile Pro Thr Arg Pro Phe Glu Glu Gly Lys Lys Ile Ser  
 85 90 95  
 Leu Pro Gly Gln Met Ala Gly Thr Pro Ile Thr Pro Leu Lys Asp Gly  
 100 105 110  
 Phe Thr Glu Val Gln Leu Ser Ser Val Asn Pro Pro Ser Leu Ser Pro  
 115 120 125  
 Pro Gly Thr Thr Gly Ile Glu Gln Ser Leu Thr Gly Leu Ser Ile Ser  
 130 135 140  
 Ser  
 145

<210> 693  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens

<400> 693

Arg Ile Pro Thr Arg Pro Phe Glu Glu Gly Lys Lys Ile Ser Leu Pro  
 1 5 10 15  
 Gly Gln Met Ala Gly Thr Pro Ile Thr Pro Leu Lys Asp Gly Phe Thr  
 20 25 30  
 Glu Val Gln Leu Ser Ser Val Asn Pro Pro Ser Leu Ser Pro Pro Gly  
 35 40 45  
 Thr Thr Gly Ile Glu Gln Ser Leu Thr Gly Leu Ser Ile Ser Ser Thr  
 50 55 60  
 Pro Pro Ala Val Ser Ser Val Leu Ser Thr Gly Val Pro Thr Val Pro  
 65 70 75 80  
 Leu Leu Pro Pro Gln Val Asn Gln Ser Leu Thr Ser Val Pro Pro Met



85

90

95

Asn Pro Ala Thr Thr Leu Pro Gly Leu Met Pro Leu Pro Ala Gly Leu  
 100 105 110

Pro Asn Leu Pro Asn Leu Asn Leu Asn Leu Pro Ala Pro His Ile Met  
 115 120 125

Pro Gly Val Gly Leu Pro Glu Leu Val Asn Pro Gly Leu Pro Pro Leu  
 130 135 140

Pro Ser Met Pro Pro Arg Asn  
 145 150

&lt;210&gt; 694

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 694

Pro Gly Leu Pro Pro Leu Pro Ser Met Pro Pro Arg Asn Leu Pro Gly  
 1 5 10 15

Ile Ala Pro Leu Pro Leu Pro Ser Glu Phe Leu Pro Ser Phe Pro Leu  
 20 25 30

Val Pro Glu Ser Ser Ser Ala Ala Ser Ser Gly Glu Leu Leu Ser Ser  
 35 40 45

Leu Pro Pro Thr Ser Asn Ala Pro Ser Asp Pro Ala Thr Thr Thr Ala  
 50 55 60

Lys Ala Asp Ala Ala Ser Ser Leu Thr Val Asp Val Thr Pro Pro Thr  
 65 70 75 80

Ala Lys Ala Pro Thr Thr Val Glu Asp Arg Val Gly Asp Ser Thr Pro  
 85 90 95

Val Ser Glu Lys Pro Val Ser Ala Ala Val Asp Ala Asn  
 100 105

&lt;210&gt; 695

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 695

Ala Trp Gly Gly Glu Gly Ser Leu Gly Cys Gly Ile Gly Tyr Gly Tyr  
 1 5 10 15

Leu His Arg Ile Pro Thr  
 20

&lt;210&gt; 696

&lt;211&gt; 10

<212> PRT  
 <213> Homo sapiens

<400> 696  
 Ser Pro Ala Ala Leu Ala Gly Leu Arg Pro  
           1                          5                          10

<210> 697  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 697  
 Trp Gly Gly Gln Gly Leu Leu Gly  
           1                          5

<210> 698  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 698  
 Arg Asn Gly Ala Leu Leu Asp Lys Asn Phe Phe Asn Ala Asn Ser His  
           1                          5                          10                          15

Phe Pro Val Lys Gly Glu Arg Ile Arg Arg Arg  
                           20                          25

<210> 699  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 699  
 Arg Gly Ser Gly Phe Gly Trp Thr Ser Phe Pro Arg Pro Leu Pro Thr  
           1                          5                          10                          15

Glu Leu Thr Cys Pro Gly Phe His Arg Glu Arg Ala Phe Pro Pro Asp  
                           20                          25                          30

Gly Arg Val Arg Gly Val Arg Gly Trp Gly Ile Arg Arg Gly Cys Arg  
                           35                          40                          45

Ala Val Trp Gly Val Gly Ala Cys Gly Cys Ser Pro Gly Ser Ser Trp  
           50                          55                          60

Arg Gly Ser Ala His Arg Ala Ser Gly Pro Ala Asp Leu Pro Val Ala  
           65                          70                          75                          80

Cys Arg Xaa Glu Gly Gly Ala Asp Ser Pro Ser Leu Leu Pro Ser Pro

85

90

95

Pro

<210> 700  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 700  
 Ala Val Trp Gly Val Gly Ala Cys Gly Cys Ser Pro Gly Ser Ser Trp  
 1 5 10 15

Arg Gly Ser Ala His Arg Ala  
 20

<210> 701  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 701  
 Tyr Arg Pro Thr Met Glu Lys Met Lys Gln Val Val Thr Gln Thr Arg  
 1 5 10 15

Trp Met Arg Pro Asp Ala Lys Arg Ala Asn Arg Arg His Arg Arg Ile  
 20 25 30

Ser Gly Lys Ile Phe Ala Trp Asn Pro Leu Pro Lys Thr Arg Phe Ser  
 35 40 45

Arg Leu Leu Lys Ala Val Ser Glu Asn Thr Lys Arg Pro Glu Pro Ser  
 50 55 60

Arg Pro Pro Trp Met Val Ser His Ser Val Glu Ala Ser  
 65 70 75

<210> 702  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 702  
 Phe Ala Trp Asn Pro Leu Pro Lys Thr Arg Phe Ser Arg Leu Leu Lys  
 1 5 10 15

Ala Val Ser Glu Asn Thr Lys Arg Pro Glu Pro  
 20 25

<210> 703  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 703

Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser  
 1 5 10 15

Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Trp Ile Phe Gly Val Leu His Val Val His  
 35 40 45

Ala Ser Val Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln  
 50 55 60

Gly Met Phe Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln  
 65 70 75 80

Glu Glu Tyr Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys  
 85 90

&lt;210&gt; 704

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 704

Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val Val Thr Ala  
 1 5 10 15

Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe Ile Phe Leu  
 20 25 30

Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr Tyr Arg Leu  
 35 40 45

Phe Lys Asn Val Pro Cys Cys  
 50 55

&lt;210&gt; 705

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 705

Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser  
 1 5 10 15

Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg  
 20 25

&lt;210&gt; 706

&lt;211&gt; 66

&lt;212&gt; PRT

<213> Homo sapiens

<400> 706

Ile Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val  
1 5 10 15

Ser Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu Ala Leu  
20 25 30

Leu Phe Leu Leu Gly Thr Thr Trp Ile Phe Gly Val Leu His Val Val  
35 40 45

His Ala Ser Val Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe  
50 55 60

Gln Gly  
65

<210> 707

<211> 32

<212> PRT

<213> Homo sapiens

<400> 707

Glu Val Ser Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu  
1 5 10 15

Ala Leu Leu Phe Leu Leu Gly Thr Thr Trp Ile Phe Gly Val Leu His  
20 25 30

<210> 708

<211> 86

<212> PRT

<213> Homo sapiens

<400> 708

Thr Thr Ile Leu Arg Thr Cys Thr Ile Val Cys Phe Tyr Tyr Trp Phe  
1 5 10 15

Asn Gly Val Met Val Leu Leu Phe Phe Leu Asp Arg Asn Leu Leu Thr  
20 25 30

Phe Asn Gln Ala Ser Ile Met Pro Phe Ser Asn Thr Asp Phe Leu His  
35 40 45

Cys Leu Ser Phe Lys Lys Lys Leu Met Leu Leu Arg Tyr Ile Phe Tyr  
50 55 60

Val Val Leu Thr Gly Pro Thr Leu Ser Leu Lys Gly Asp Glu Asn Gln  
65 70 75 80

Ile Lys Asn Leu Phe Thr  
85

<210> 709  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 709  
 Ile Val Cys Phe Tyr Tyr Trp Phe Asn Gly Val Met Val Leu Leu Phe  
 1 5 10 15  
 Phe Leu Asp Arg Asn Leu Leu  
 20

<210> 710  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 710  
 Leu Leu Arg Tyr Ile Phe Tyr Val Val Leu Thr Gly Pro Thr Leu Ser  
 1 5 10 15  
 Leu Lys Gly Asp Glu Asn Gln Ile  
 20

<210> 711  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 711  
 Ala Leu Thr Arg Ile Pro Pro Gly Asp Trp Val Ile Asn Val Thr Ala  
 1 5 10 15  
 Val Ser Phe Ala Gly Lys Thr Thr Ala Arg Phe Phe Xaa His Ser Ser  
 20 25 30  
 Pro Pro Ser Leu Gly Asp Gln Ala Arg Thr Asp Pro Gly His Gln Arg  
 35 40 45  
 Arg Asp  
 50

<210> 712  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 712  
 Ser Met Leu Leu Leu Phe Pro Leu Gln Glu Arg Pro Gln Gln Asp Ser  
 1 5 10 15  
 Phe Ile Arg Leu Leu Leu Ala Trp Gly Thr Arg Leu Glu Leu Thr Leu  
 20 25 30

Asp Ile Lys Gly Gly Ile  
35

<210> 713

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 713

Thr Gly Leu Trp Ala Asp Gly Phe Ser Ser His Ile Ile Pro Pro Leu  
1 5 10 15

Met Ser Arg Val Ser Ser Ser Leu Val Pro Gln Ala Arg Arg Arg Arg  
20 25 30

Met Lys Glu Ser Cys Cys Gly Leu Ser Cys Lys Gly Asn Ser Ser Asn  
35 40 45

Ile Asp Tyr Pro Val Thr Gly Arg Asn Ser Cys Glu Arg Ala Pro Leu  
50 55 60

Cys Ala Phe Ala Leu His Phe Gln Glu Arg Thr Xaa Ile Thr Gly Xaa  
65 70 75 80

Gly Glu Asp Pro Gly Pro Phe Gln Ser Xaa Gly Arg Val Thr Ala Ser  
85 90 95

Arg Xaa Thr Leu Ala Cys Ser His Val Ala Met Thr Pro Ala Gly Cys  
100 105 110

Xaa Gln Ala Leu Gly Thr Pro Ser Ser Tyr Cys Val Arg Lys Ala Pro



115

120

125

Arg Ala  
130

&lt;210&gt; 714

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 714

Gln Ala Arg Arg Arg Met Lys Glu Ser Cys Cys Gly Leu Ser Cys  
1 5 10 15

Lys Gly Asn Ser Ser Asn Ile Asp Tyr Pro Val Thr  
20 25

&lt;210&gt; 715

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 715

Leu Trp Arg Ser Ser Gly Val Glu Arg  
1 5

&lt;210&gt; 716

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 716

Leu Gln Glu Val Asn Ile Thr Leu Pro Glu Asn Ser Val Trp Tyr Glu  
1 5 10 15

Arg Tyr Lys Phe Asp Ile Pro Val Phe His Leu  
20 25

&lt;210&gt; 717

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys  
1 5 10 15

Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln  
20 25 30

Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu  
35 40 45

Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln Pro His

50

55

60

Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile Leu Ser  
65 70 75 80

Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys Lys Lys  
85 90 95

Lys Asn Ser Arg Gly Gly Pro Val Pro Ile Arg Pro Lys Ser  
100 105 110

&lt;210&gt; 718

&lt;211&gt; 99

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 718

TAGCATGTAG CCAGTCGAAT AACNTATAAG GACAAAGTGG AGTCCACGCG TCGGCGCGTC 60

TAGACTAGTG GATCCCCCGG CTGCAGGATT CGGCACGAG 99

&lt;210&gt; 719

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 719

Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys  
1 5 10 15

Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln  
20 25 30

Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu  
35 40 45

Val Phe Lys  
50

&lt;210&gt; 720

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 720

Pro Val Arg Tyr Met Gln Pro His Arg Ser Ser Leu Cys Leu His Phe  
1 5 10 15

Thr Ser Tyr Val Phe Ile Leu Ser Thr Trp Gly Ser Leu Arg Thr Tyr

20 25 30  
 Ser Thr Asp Leu Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Val  
 35 40 45

Pro Ile Arg Pro Lys Ser  
 50

<210> 721  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 721  
 Gly Glu Glu Gln Arg Asp Cys Ser Leu Gly Trp Arg Gly Val Gly Met  
 1 5 10 15

Arg Ala Thr His Cys Gln Ala Ala Arg Met Phe Val Leu Phe Ser Leu  
 20 25 30

Pro Lys Tyr Ala Gly Leu  
 35

<210> 722  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 722  
 Thr Ser Gly Ser Pro Gly Cys Arg Ile Arg His Glu Leu Pro Gly Glu  
 1 5 10 15

Glu Gln Arg Asp Cys Ser Leu Gly Trp Arg Gly Val Gly Met Arg Ala  
 20 25 30

Thr His Cys Gln Ala Ala Arg  
 35

<210> 723  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 723  
 Glu Pro Pro Ile Ala Lys Gln Gln Glu Cys Ser Cys Phe Phe Pro Phe  
 1 5 10 15

Gln Asn Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu-Cys  
 20 25 30

Leu Cys Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser  
 35 40 45

Arg Gln Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln  
 50 55 60

Asn Leu Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln  
 65 70 75 80

Pro His Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile  
 85 90 95

Leu Ser Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys  
 100 105 110

Lys Lys Lys Asn Ser Arg Gly Gly Pro Val Pro Ile Arg Pro Lys Ser  
 115 120 125

<210> 724

<211> 31

<212> PRT

<213> Homo sapiens

<400> 724

Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys Phe Ser Cys Pro Cys Ser  
 1 5 10 15

Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln Gly Gly Arg Arg Phe  
 20 25 30

<210> 725

<211> 23

<212> PRT

<213> Homo sapiens

<400> 725

Asn Gln Phe Thr Ser Cys Ile Leu Phe Cys Asp Gly Gly His Trp Arg  
 1 5 10 15

Glu Leu Leu Phe Gln Ser Ile  
 20

<210> 726

<211> 101

<212> PRT

<213> Homo sapiens

<400> 726

Ala Met Ser Ser Lys Leu Leu Asn Leu Leu Ala Leu Leu Gln Tyr Ser  
 1 5 10 15

Val His Asp His Cys His Pro Arg Arg Leu Leu Lys Arg Gly Ala Arg  
 20 25 30

Ala Thr Leu Arg His Lys Gly Trp Gly Pro Ser Ser Leu Arg Gly Cys  
 35 40 45

Glu Ser Phe Gln Ile Val Leu Ile Gly Trp Gly Pro Asp Leu Ala Val  
 50 55 60

Gly Phe Gly Arg Gly Lys Leu Leu Ser Arg Ser Leu Pro Val Arg His  
 65 70 75 80

Gly Gly Val Ser Glu Phe Cys Leu Pro His Arg Asp Val Val Arg Leu  
 85 90 95

Glu Lys Val Lys Lys  
 100

<210> 727

<211> 33

<212> PRT

<213> Homo sapiens

<400> 727

Gly Pro Ser Ser Leu Arg Gly Cys Glu Ser Phe Gln Ile Val Leu Ile  
 1 5 10 15

Gly Trp Gly Pro Asp Leu Ala Val Gly Phe Gly Arg Gly Lys Leu Leu  
 20 25 30

Ser

<210> 728

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 728

Thr Arg Lys Asn Ile Asp Phe Xaa Glu Thr Glu Lys Tyr Tyr Leu Phe  
 1 5 10 15

Ser Phe Ser Asn Asn Val Ser Phe Lys Asn Phe Trp Leu Lys Tyr Asn  
 20 25 30

<210> 729

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 729

Met Pro Arg Lys Thr Ser Lys Cys Arg Gln Leu Leu Cys Ser Gly Ala  
1 5 10 15

Ser Arg Asn Ala Asp Thr Ala Ala Arg Gln Ser Thr Cys Ser Ser His  
20 25 30

Arg Pro Pro Gly Lys Ile Pro Ser Leu Gly Pro Arg Arg Xaa Pro Gly  
35 40 45

Cys Xaa Ser Val Pro Ser Ser Arg Gly Glu Gln Ser Thr Gly Ser Pro  
50 55 60

Ala Ala Pro Arg Cys Gly Arg Arg Asp Ala His Arg Gly Leu Pro Gly  
65 70 75 80

Gly Ala Ala Met Thr Pro Gly Asp Thr Trp Ala Ser Phe Asn Pro Arg  
85 90 95

Ala Gly His Ser Lys Ser Gln Gly Glu Gly Gln Glu Ser Ser Gly Ala  
100 105 110

Ser Arg Gln Asp Arg His Pro Val Ser His Trp Val Glu Arg Gln Arg  
115 120 125

Glu Ala Trp Gly Ala Pro Arg Ser Ser Ser Ala Gly Gly Val Lys Val  
130 135 140

Ala Ala Thr Thr Glu Arg Glu Pro Glu Phe Lys Ile Lys Thr Gly Lys  
145 150 155 160

Ala

<210> 730

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 730

Cys Ser Gly Ala Ser Arg Asn Ala Asp Thr Ala Ala Arg Gln Ser Thr  
1 5 10 15

Cys Ser Ser His Arg Pro Pro Gly Lys Ile Pro Ser Leu Gly Pro Arg  
20 25 30

Arg Xaa Pro Gly Cys Xaa Ser Val Pro Ser Ser Arg Gly Glu Gln Ser  
35 40 45

Thr Gly Ser Pro Ala Ala Pro Arg Cys Gly Arg Arg Asp Ala His Arg  
50 55 60

Gly Leu Pro Gly Gly Ala Ala Met Thr Pro Gly Asp Thr Trp Ala Ser  
65 70 75 80

Phe Asn Pro Arg Ala Gly His Ser  
85

<210> 731

<211> 59

<212> PRT

<213> Homo sapiens

<400> 731

Gln Gly Glu Gly Gln Glu Ser Ser Gly Ala Ser Arg Gln Asp Arg His  
1 5 10 15

Pro Val Ser His Trp Val Glu Arg Gln Arg Glu Ala Trp Gly Ala Pro  
20 25 30

Arg Ser Ser Ser Ala Gly Gly Val Lys Val Ala Ala Thr Thr Glu Arg  
35 40 45

Glu Pro Glu Phe Lys Ile Lys Thr Gly Lys Ala  
50 55

<210> 732

<211> 63

<212> PRT

<213> Homo sapiens

<400> 732

Ile Arg His Glu Gly Lys Arg Met Leu Asn Glu Ser Arg Lys Pro Leu  
1 5 10 15

Ser Phe Ala Ser Arg Leu Ser Ser Leu Tyr Phe Lys Leu Gly Phe Pro  
20 25 30

Phe Cys Gly Arg Ser Asn Leu Tyr Ser Thr Cys Thr Ala Ala Pro Gly  
35 40 45

Gly Ser Pro Gly Leu Pro Leu Pro Phe Tyr Pro Val Ala Asp Gly  
50 55 60

<210> 733

<211> 176  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 733

Thr Arg Ala Glu Ser Leu Phe Pro Leu Leu His Ala Phe Pro Val Phe  
 1 5 10 15

Ile Leu Asn Ser Gly Ser Leu Ser Val Val Ala Ala Thr Phe Thr Pro  
 20 25 30

Pro Ala Leu Leu Leu Leu Gly Ala Pro Gln Ala Ser Leu Cys Leu Ser  
 35 40 45

Thr Gln Trp Leu Thr Gly Cys Leu Ser Cys Leu Asp Ala Pro Leu Leu  
 50 55 60

Ser Cys Pro Ser Pro Trp Leu Leu Leu Cys Pro Ala Leu Gly Leu Lys  
 65 70 75 80

Leu Ala His Val Ser Pro Gly Val Met Ala Ala Pro Pro Gly Arg Pro  
 85 90 95

Leu Cys Ala Ser Arg Leu Pro His Leu Gly Ala Ala Gly Glu Pro Val  
 100 105 110

Leu Cys Ser Pro Arg Leu Leu Gly Thr Glu Leu Gln Pro Gly Xaa Leu  
 115 120 125

Arg Gly Pro Arg Leu Gly Ile Leu Pro Gly Gly Arg Trp Glu Glu Gln  
 130 135 140

Val Leu Cys Leu Ala Ala Val Ser Ala Phe Leu Asp Ala Pro Glu His  
 145 150 155 160

Arg Ser Cys Arg His Phe Glu Val Phe Leu Gly Met Cys Gln Ile Thr  
 165 170 175

<210> 734  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 734

Pro Ala Leu Gly Leu Lys Leu Ala His Val Ser Pro Gly Val Met Ala  
 1 5 10 15

Ala Pro Pro Gly Arg Pro Leu Cys Ala Ser Arg Leu Pro  
 20 25



&lt;210&gt; 735

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 735

Gly Gly Arg Trp Glu Glu Gln Val Leu Cys Leu Ala Ala Val Ser Ala  
 1 5 10 15

Phe Leu Asp Ala Pro Glu His Arg  
 20

&lt;210&gt; 736

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 736

Ser Trp Pro Met Cys Pro Pro Glu Ser Trp Leu Leu Leu Leu Gly Gly  
 1 5 10 15

Leu Cys Val Arg His Val Phe His Thr Trp Gly Gln Leu Ala Ser Pro  
 20 25 30

Cys Ser Val Pro Leu Gly Cys Leu Ala Gln Ser Cys Ser Leu Gly Xaa  
 35 40 45

Ser Val Asp Pro Asp Trp Gly Phe Cys Gln Gly Gly Asp Gly Arg Ser  
 50 55 60

Arg Cys Phe Ala Trp Arg Leu Cys Leu His Phe Trp Thr Pro Gln Ser  
 65 70 75 80

Thr Glu Val Ala Gly Thr Leu Arg Ser Ser Ser Ala Cys Ala Arg Leu  
 85 90 95

His Glu

&lt;210&gt; 737

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 737

Gly Asp Gly Arg Ser Arg Cys Phe Ala Trp Arg Leu Cys Leu His Phe  
 1 5 10 15

Trp Thr Pro Gln Ser Thr Glu Val Ala Gly Thr Leu Arg

20

25

<210> 738  
 <211> 235  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 738

Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro  
 1 5 10 15

Asn Gln Ala Leu Gly Gly Val Pro Gly Ser Gln Pro Leu Leu Pro Ser  
 20 25 30

Gly Met Asp Pro Thr Arg Gln Gln Gly His Pro Asn Met Gly Gly Pro  
 35 40 45

Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln  
 50 55 60

Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro  
 65 70 75 80

Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro  
 85 90 95

Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly  
 100 105 110

Asn Tyr Val Gly Pro Pro Gly Gly Gly Gly Pro Pro Gly Thr Pro Ile  
 115 120 125

Met Pro Ser Pro Ala Asp Ser Thr Asn Ser Gly Asp Asn Met Tyr Thr  
 130 135 140

Leu Met Asn Ala Val Pro Pro Gly Pro Asn Arg Pro Asn Phe Pro Met  
 145 150 155 160

Gly Pro Gly Ser Asp Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser  
 165 170 175

His His Met Asn Gly Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser  
 180 185 190

Lys Asn Ser Pro Asn Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro  
 195 200 205

Arg Asp Asp Gly Glu Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser  
 210 215 220

Glu Ser Tyr Ser Pro Ser Met Thr Met Ser Val  
 225 230 235

<210> 739  
 <211> 114  
 <212> PRT

<213> Homo sapiens

<400> 739

Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro  
1 5 10 15

Asn Gln Ala Leu Gly Gly Val Pro Gly Ser Gln Pro Leu Leu Pro Ser  
20 25 30

Gly Met Asp Pro Thr Arg Gln Gln Gly His Pro Asn Met Gly Gly Pro  
35 40 45

Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln  
50 55 60

Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro  
65 70 75 80

Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro  
85 90 95

Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly  
100 105 110

Asn Tyr

<210> 740

<211> 81

<212> PRT

<213> Homo sapiens

<400> 740

Leu Asn Ala Leu Gly Gly Pro Gly Met Pro Gly Met Asn Met Gly Pro  
1 5 10 15

Gly Gly Gly Arg Pro Trp Pro Asn Pro Thr Asn Ala Asn Ser Ile Pro  
20 25 30

Tyr Ser Ser Ala Ser Pro Gly Asn Tyr Val Gly Pro Pro Gly Gly Gly  
35 40 45

Gly Pro Pro Gly Thr Pro Ile Met Pro Ser Pro Ala Asp Ser Thr Asn  
50 55 60

Ser Gly Asp Asn Met Tyr Thr Leu Met Asn Ala Val Pro Pro Gly Pro  
65 70 75 80

Asn

<210> 741

<211> 70

<212> PRT

<213> Homo sapiens

&lt;400&gt; 741

Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser His His Met Asn Gly  
 1 5 10 15

Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser Lys Asn Ser Pro Asn  
 20 25 30

Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro Arg Asp Asp Gly Glu  
 35 40 45

Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser Glu Ser Tyr Ser Pro  
 50 55 60

Ser Met Thr Met Ser Val  
 65 70

&lt;210&gt; 742

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 742

Thr Cys Glu His Ser Ser Glu Ala Lys Ala Phe His Asp Tyr  
 1 5 10

&lt;210&gt; 743

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 743

Arg Arg Glu Thr Cys Glu His Ser Ser Glu Ala Lys Ala Phe His Asp  
 1 5 10 15

Tyr Pro Phe

&lt;210&gt; 744

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 744

Thr Ile Thr Leu Phe Gln Ser Ala Trp Cys Phe Phe Ser Lys Tyr Cys  
 1 5 10 15

Thr Asp Phe Thr  
 20

&lt;210&gt; 745

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 745

Val Arg Gly Cys Glu Asp Gly Gly Gly Gly Gly Ile Trp Gly Gly Trp  
 1 5 10 15

Trp Pro Gly Gln Gln Met Ala Pro Pro Trp Leu Ser Cys Pro His Arg  
 20 25 30

Gln Phe Pro His Phe His Ser Gly Arg Gln Arg Arg Gln Ser Asp Leu  
 35 40 45

Leu Lys Glu Glu Leu Pro Gln Pro Ser Gly Ala Ala Gly Arg Ala Ser  
 50 55 60

Gly Asn Lys Pro Tyr Thr Pro Pro Pro Ala Ser Asn Ser Leu Thr Leu  
 65 70 75 80

Arg Leu Leu Ser Phe Arg Phe Asn Ala Phe Asn Arg Ser His Pro Gln  
 85 90 95

Pro Ser Leu Asn Tyr Lys Asp Arg Gln  
 100 105

&lt;210&gt; 746

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 746

Pro Trp Leu Ser Cys Pro His Arg Gln Phe Pro His Phe His Ser Gly  
 1 5 10 15

Arg Gln Arg Arg Gln Ser Asp Leu Leu  
 20 25

&lt;210&gt; 747

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 747

Arg Leu Leu Ser Phe Arg Phe Asn Ala Phe Asn Arg Ser His Pro Gln  
 1 5 10 15

Pro Ser Leu Asn  
 20

&lt;210&gt; 748

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 748

Arg Asp Ser Ser Leu Trp Ala Ala Ala Leu Ser Phe Arg Gln Gln Cys  
 1 5 10 15

Ser Ser Leu Ala Ser Cys Leu Val Ser Met Tyr Ser Arg Pro Gly Arg  
 20 25 30

Gln His Arg Ala Lys Ala Gly Ala Gly Ser Gln Thr Glu Gln Cys Trp  
 35 40 45

Gly Arg Lys Val Asp Ala Val Val  
 50 55

<210> 749

<211> 27

<212> PRT

<213> Homo sapiens

<400> 749

Cys Leu Val Ser Met Tyr Ser Arg Pro Gly Arg Gln His Arg Ala Lys  
 1 5 10 15

Ala Gly Ala Gly Ser Gln Thr Glu Gln Cys Trp  
 20 25

<210> 750

<211> 86

<212> PRT

<213> Homo sapiens

<400> 750

Pro Glu His Gly Phe Ser Ser Cys Asp Phe Trp Glu Gly Ala Pro Ser  
 1 5 10 15

Ser Gly Pro Lys Glu Gly Gly Arg Ser Pro Pro Gln Leu Ala Cys Val  
 20 25 30

Trp Gly Met Asn Leu Ser Ser Pro Pro Cys Leu Ala Leu Leu Thr Asn  
 35 40 45

Arg Ala Cys Leu Ala Val Asn Trp His Arg Val Thr Leu Phe Pro Gly  
 50 55 60

Ile Gln Val Cys Asn Gln Asn Thr Gly Glu Glu Lys Leu Gln Asp Pro  
 65 70 75 80

Cys Pro His Leu Ser Ser  
 85

<210> 751

<211> 30

<212> PRT

<213> Homo sapiens

<400> 751

Arg Ser Pro Pro Gln Leu Ala Cys Val Trp Gly Met Asn Leu Ser Ser  
 1 5 10 15

Pro Pro Cys Leu Ala Leu Leu Thr Asn Arg Ala Cys Leu Ala

20

25

30

&lt;210&gt; 752

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 752

Cys Glu Arg Asp Ser Glu Thr Ser Ser Ile Ala Met Thr Cys Ile Lys  
 1 5 10 15

His Lys Pro Pro Lys Gln Lys Lys Arg Leu Ser Leu Leu Pro Gly Phe  
 20 25 30

Arg Ser Ala Leu Pro Arg Val Cys Arg Cys His Met Ile Thr Val Gln  
 35 40 45

Arg Glu Ala Phe Arg Thr His Thr Gly Cys Ser Thr Ser Val His Leu  
 50 55 60

Pro Ser Arg Gly Gly Phe Leu Pro Asp Phe  
 65 70

&lt;210&gt; 753

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 753

Lys Lys Arg Leu Ser Leu Leu Pro Gly Phe Arg Ser Ala Leu Pro Arg  
 1 5 10 15

Val Cys Arg Cys His Met Ile Thr Val Gln Arg Glu  
 20 25

&lt;210&gt; 754

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 754

Gln Ala Phe Val Leu Leu Ser Asp Leu Leu Leu Ile Phe Ser Pro Gln  
 1 5 10 15

Met Ile Val Gly Gly Arg Asp Phe Leu Arg Pro Leu Val Phe Phe Pro  
 20 25 30

Glu Ala Thr Leu Gln Ser Glu Leu Ala Ser Phe Leu Met Asp His Val  
 35 40 45

Phe Ile Gln Pro Gly Asp Leu Gly Ser Gly Ala  
 50 55

&lt;210&gt; 755

<211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 755

Ala Cys Ser Tyr Leu Leu Cys Asn Pro Glu Phe Thr Phe Phe Ser Arg  
 1 5 10 15

Ala Asp Phe Ala Arg Ser Gln Leu Val Asp Leu Leu Thr Asp Arg Phe  
 20 25 30

Gln Gln Glu Leu Glu Glu Leu Leu Gln Val Gly  
 35 40

<210> 756

<211> 35

<212> PRT

<213> Homo sapiens

<400> 756

Gln Lys Gln Leu Ser Ser Leu Arg Asp Arg Met Val Ala Phe Cys Glu  
 1 5 10 15

Leu Cys Gln Ser Cys Leu Ser Asp Val Asp Thr Glu Ile Gln Glu Gln  
 20 25 30

Val Ser Thr  
 35

<210> 757

<211> 27

<212> PRT

<213> Homo sapiens

<400> 757

Gln Val Ile Leu Pro Ala Leu Thr Leu Val Tyr Phe Ser Ile Leu Trp  
 1 5 10 15

Thr Leu Thr His Ile Ser Lys Ser Asp Ala Ser  
 20 25

<210> 758

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 758

Ser Thr His Asp Leu Thr Arg Trp Glu Leu Tyr Glu Pro Cys Cys Gln  
 1 5 10 15



Leu Leu Gln Lys Ala Val Asp Thr Gly Xaa Val Pro His Gln Val  
 20 25 30

<210> 759  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 759  
 Thr Ser Phe Leu Phe Pro Leu Gln Ala Phe Val Leu Leu Ser Asp Leu  
 1 5 10 15

Leu Leu Ile Phe Ser Pro Gln Met Ile Val Gly Gly Arg Asp Phe Leu  
 20 25 30

Arg Pro Leu Val Phe Phe Pro Glu Ala Thr Leu Gln Ser Glu Leu Ala  
 35 40 45

Ser Phe Leu Met Asp His Val Phe Ile Gln Pro Gly Asp Leu Gly Ser  
 50 55 60

Gly Ala  
 65

<210> 760  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 760  
 Gly Trp Gly Ala Cys Ser Tyr Leu Leu Cys Asn Pro Glu Phe Thr Phe  
 1 5 10 15

Phe Ser Arg Ala Asp Phe Ala Arg Ser Gln Leu Val Asp Leu Leu Thr  
 20 25 30

Asp Arg Phe Gln Gln Glu Leu Glu Glu Leu Leu Gln Val Gly Ala Gly  
 35 40 45

Ala Gly Gln Trp Asp Thr Pro Asn Lys Gly Gly Arg Gly Cys Lys Thr  
 50 55 60

Gly Asp Val Asp  
 65

<210> 761  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 761  
 Val Trp Val Leu Asp Gly Ile Met Gly Thr Glu Glu Ser Val Ser Ser  
 1 5 10 15

Phe Phe Pro Phe Lys Pro Leu Cys Pro Gln Lys Gln Leu Ser Ser Leu

20

25

30

Arg Asp Arg Met Val Ala Phe Cys Glu Leu Cys Gln Ser Cys Leu Ser  
35 40 45

Asp Val Asp Thr Glu Ile Gln Glu Gln Val Ser Thr Asp Ser Ser Gly  
50 55 60

Ser Asn Lys Ala Ser Ile Pro Ala Pro Ile Pro Arg Arg Asn  
65 70 75

<210> 762

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 762

Asn Ala Ser Leu Pro Ser Thr Ser Glu Trp Leu Ser Ser Ser Ser Pro  
1 5 10 15

Ser Arg Phe Tyr Trp Cys Leu Trp Ser Trp Phe Pro Leu Phe Phe Ser  
20 25 30

Ser Ile Thr Phe Pro Phe Leu Pro Gln Ser Thr His Asp Leu Thr Arg  
35 40 45

Trp Glu Leu Tyr Glu Pro Cys Cys Gln Leu Leu Gln Lys Ala Val Asp  
50 55 60

Thr Gly Xaa Val Pro His Gln Val Ser Gly Gln Ala Arg Asp Gly Leu  
65 70 75 80

Gly Ala Gly Gly Leu Xaa Phe Lys Asp Leu Arg Ser Arg Trp Pro Leu  
85 90 95

Gly Val Ser Ser Leu Ser Ala Trp Ser Gly Gln Ser Glu Glu Asp Gln  
100 105 110

Val Gly Gly Gly His Leu Leu His Ser Ser Leu Arg Arg Trp Thr Leu  
115 120 125

Leu Pro Gly Ser Ser Trp Ile Ser Trp Lys Pro Arg Ile Ile Leu Arg  
130 135 140

Asp Ser Arg Arg Arg Arg Val Asn  
145 150

<210> 763  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 763  
 Val Leu Gly Glu Met Leu Leu Trp Ile Phe Phe Pro Ser Gln Ser Ser  
 1 5 10 15  
 Phe Leu Asp Glu Asp Glu Val Tyr Asn Leu Ala Ala Thr Leu Lys Arg  
 20 25 30  
 Leu Ser Ala Phe Tyr Lys  
 35

<210> 764  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 764  
 Pro Lys Pro His Phe Ser Asn Pro Leu Leu Leu Gln Val Ile Leu Pro  
 1 5 10 15  
 Ala Leu Thr Leu Val Tyr Phe Ser Ile Leu Trp Thr Leu Thr His Ile  
 20 25 30  
 Ser Lys Ser Asp Ala Ser Pro Gly Glu Cys Gly Ser  
 35 40

<210> 765  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 765  
 His Cys Gln Phe Leu Leu Gly  
 1 5

<210> 766  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 766  
 Glu Phe Gly Thr Ser Leu Val Ala Leu Glu Leu His Glu Leu Leu Tyr  
 1 5 10 15  
 His Trp Glu Thr Arg Ala Gln Pro Ser Leu Ile Leu Tyr Val Val Ser  
 20 25 30  
 Asp Leu Arg Trp Met Glu Phe Arg Thr Ser Cys Leu Leu Phe Asp Phe  
 35 40 45

Val Leu Phe Leu Glu  
50

<210> 767

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 767

Thr Lys Pro Gly Met Val Gly His Val Pro Ile Val Pro Ala Thr Lys  
1 5 10 15

Xaa Ala Glu Ala Gly Gly Ser Pro Glu Pro Gly Ser Ser Thr Leu Gln  
20 25 30

Trp Pro Met Ile Thr Pro Cys Thr Pro Ser Trp Ala Thr Glu Pro Asp  
35 40 45

His Val Ser Glu Asp Glu  
50

<210> 768

<211> 30

<212> PRT

<213> Homo sapiens

<400> 768

Leu Leu Tyr His Trp Glu Thr Arg Ala Gln Pro Ser Leu Ile Leu Tyr  
1 5 10 15

Val Val Ser Asp Leu Arg Trp Met Glu Phe Arg Thr Ser Cys  
20 25 30

<210> 769

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 769

Leu Ala Val Ser Thr Ser Phe Ile Cys Cys Ala Asp Ile Ser Thr Ala  
1 5 10 15

Leu Pro Leu Gly Ser Ser Arg Pro Ala Pro Ala Pro Arg His Arg Glu  
20 25 30

His Glu His Gly His Gln Ala Arg Pro Pro Arg Leu Leu Xaa Thr Ser  
35 40 45

Leu Met Pro Leu Ser Thr Pro Ala Ala Ala Gln Leu Leu Trp Thr Gln  
50 55 60

Leu Thr Pro Met Gly Gly Arg Pro Gly Gly Arg His Ser Pro Pro Thr  
65 70 75 80

Leu His Thr Gly Pro Arg Ala Leu Pro Pro Gly Pro Pro His Pro Ser  
85 90 95

Leu His Val Ala Ala Leu Ser Leu Leu Arg  
100 105

<210> 770

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 770

Ala Pro Ala Val Pro His Gln Pro Pro Gly Thr Glu Ser Thr Ser Met  
1 5 10 15

Gly Thr Lys Pro Gly Leu Pro Gly Cys Ser Xaa Arg Pro Leu Cys His  
20 25 30

Tyr Gln His Gln Leu Xaa Pro Ser Tyr Phe Gly His Ser Ser Pro Pro  
35 40 45

Trp Gly Ala Val Leu Val Gly Val Thr Pro His Pro Arg Cys Thr Pro  
50 55 60

Ala Pro Gly Pro Cys Arg Leu Gly Leu His Thr His Pro Cys Thr Trp  
65 70 75 80

Gln Leu Cys Leu Cys  
85

<210> 771

<211> 28

<212> PRT

<213> Homo sapiens

<400> 771

Cys Ala Asp Ile Ser Thr Ala Leu Pro Leu Gly Ser Ser Arg Pro Ala

1

5

10

15

Pro Ala Pro Arg His Arg Glu His Glu His Gly His  
                   20                  25

&lt;210&gt; 772

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 772

Trp Thr Gln Leu Thr Pro Met Gly Gly Arg Pro Gly Gly Arg His Ser  
       1                  5                  10                  15

Pro Pro Thr Leu His Thr Gly Pro Arg  
                   20                  25

&lt;210&gt; 773

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 773

His Gln Pro Pro Gly Thr Glu Ser Thr Ser Met Gly Thr Lys Pro Gly  
       1                  5                  10                  15

Leu Pro Gly Cys  
                   20

&lt;210&gt; 774

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 774

Ser Arg Gly Ser Leu Leu Pro Pro His Leu Pro His Arg Val Val Val  
       1                  5                  10                  15

Arg Val His Arg Gly Ala Lys Ser Leu Lys Ala Leu Arg Gln Tyr Ile  
                   20                  25                  30

Gly Ala Ala His Leu Gln Leu Pro Trp Asp Gly Lys Asp Pro Ala Arg  
                   35                  40                  45

Pro Leu Gly Ile Thr Leu Cys Leu Gln Met Glu Ile Gln Val Leu Gly  
                   50                  55                  60

&lt;210&gt; 775

&lt;211&gt; 150

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 775

Cys Cys Ser Phe Gly Phe Tyr Tyr Met Val Gly Ser Asp Thr Ala Glu  
 1 5 10 15

Lys Gln Gly Pro Ile Pro Gly Ser Gln Thr Gln Glu Gly Pro Trp Leu  
 20 25 30

Ser Arg His Thr His Ser Pro Arg Ala Val Pro Glu Ser Ser Thr Ala  
 35 40 45

Pro Ala Gln Pro Leu Leu Leu Pro Leu Pro Ala Pro Gln Ala Arg Arg  
 50 55 60

Trp Ala Ser Asn Ala Asn Gly Trp Gly Trp Asp His Gln Arg Glu Gly  
 65 70 75 80

Gln Ala Asn Tyr Pro Tyr Ser Ala Arg Pro Ala Pro His Asn Leu His  
 85 90 95

Pro Gln Tyr Leu Asn Leu His Leu Gln Thr Gln Cys Tyr Ala Gln Gly  
 100 105 110

Ser Gly Trp Val Leu Pro Ile Pro Gly Gln Leu Lys Val Gly Gly Pro  
 115 120 125

Tyr Ile Leu Pro Glu Gly Leu Gln Gly Leu Cys Ser Ser Val His Pro  
 130 135 140

His Asn Asn Pro Val Arg  
 145 150

&lt;210&gt; 776

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 776

His Arg Gly Ala Lys Ser Leu Lys Ala Leu Arg Gln Tyr Ile Gly Ala  
 1 5 10 15

Ala His Leu Gln Leu Pro Trp Asp Gly  
 20 25

&lt;210&gt; 777

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 777

Pro Ala Pro Gln Ala Arg Arg Trp Ala Ser Asn Ala Asn Gly Trp Gly  
 1 5 10 15

Trp Asp His Gln Arg  
 20

<210> 778  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 778  
 His Pro Gln Tyr Leu Asn Leu His Leu Gln Thr Gln Cys Tyr Ala Gln  
           1                  5                  10                  15  
 Gly Ser Gly Trp Val Leu Pro  
                   20

<210> 779  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 779  
 Thr Asn Gly Ile Met Gln Tyr Val Thr Phe Cys Val Trp Leu Ile Leu  
           1                  5                  10                  15  
 Phe Ser Ile Met Phe Leu Arg Phe Ile Gln Ala Val Ala Cys Ile Ser  
                   20                  25                  30  
 Thr Ser Phe Leu Phe Leu Ala Glu Tyr Tyr Ser Ile Ile Trp Ile Tyr  
           35                  40                  45  
 His Asn Ser Phe Thr Tyr Ser Ser Phe Val Ser Ala Val Trp Leu Leu  
           50                  55                  60

<210> 780  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 780  
 Tyr Asn Phe Met Phe Asn Phe Ser Lys Asn Cys Gln Lys Val Phe His



|   |     |     |    |
|---|-----|-----|----|
| 1   | 5   | 10  | 15 |
| Ser Gly Cys Ile Ile Tyr Ile Pro Thr Gly Asn Val Gln Gly Phe Leu |     |     |    |
| 20  | 25  | 30  |    |
| Phe Phe His Ile Leu Ala Leu Thr Asn Thr Ser Phe Xaa Xaa Xaa Phe |     |     |    |
| 35  | 40  | 45  |    |
| Cys Phe Phe Ile Ile Ala Thr Leu Val Asp Val Lys Trp His Leu Ile |     |     |    |
| 50  | 55  | 60  |    |
| Val Leu Ile Cys Ile Ser Leu Met Thr Asn Asp Ile Ile Leu Phe Leu |     |     |    |
| 65  | 70  | 75  | 80 |
| Cys Ala Tyr Gly Ser Lys Val Phe Pro Trp Arg Asn Val Pro Ser Ser |     |     |    |
| 85  | 90  | 95  |    |
| Pro Leu Pro Phe Gln Asn Leu Val Ile Cys Leu Leu Leu Phe Ser Phe |     |     |    |
| 100   | 105 | 110 |    |
| Lys Lys Phe Trp Pro Gly Ala Val Ala His Leu                     |     |     |    |
| 115   | 120 |     |    |

&lt;210&gt; 781

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 781

|   |
|---|
| Cys Val Thr Gln Ala Arg Val Gln Trp Arg Asp Leu Gly Ser Leu Gln |
| 1 5 10 15   |

|   |
|---|
| Pro Pro Pro Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Ser |
| 20 25 30  |

|   |
|---|
| Arg Xaa Asp Tyr Met His Leu Pro Pro Arg Pro Ala Asn Phe Cys Ile |
| 35 40 45  |

|   |
|---|
| Phe Ser Lys Met Gly Phe His His Val Gly Gln Ala Gly Leu Glu Val |
| 50 55 60  |

|   |
|---|
| Leu Xaa Ser Ser Asp Leu Pro Ala Leu Ala Ser Gln Ser Ala Xaa Ile |
|---|

65

70

75

80

Thr Gly Glu Pro Leu Arg Leu Ala Arg Ile Ser  
                     85                    90

&lt;210&gt; 782

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 782

Leu Pro Pro Arg Pro Ala Asn Phe Cys Ile Phe Ser Lys Met Gly Phe  
   1                    5                    10                    15

His His Val Gly Gln Ala Gly Leu Glu  
                     20                    25

&lt;210&gt; 783

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 783

Leu Ile Leu Phe Ser Ile Met Phe Leu Arg Phe Ile Gln Ala Val Ala  
   1                    5                    10                    15

Cys Ile Ser Thr Ser Phe Leu Phe  
                     20

&lt;210&gt; 784

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 784

Ala Leu Val Pro Ser Pro Gln Gln Ile Leu Pro Ser Cys Phe Ser Leu  
   1                    5                    10                    15

Met Trp Gln Val Thr Thr Lys Ser Ala Leu Val Phe Phe Lys Cys Ile  
                     20                    25                    30

Tyr Ile Pro Phe Leu Ser Ala Pro Ser Leu Pro Arg Leu Glu Asn Cys  
                     35                    40                    45

Leu Ile Phe Cys Ser Leu Asp Val Gln Ser Gln Leu Val Phe Leu Ser  
                     50                    55                    60

Ser Pro Pro Val Ala Gly Val Leu Phe Phe Phe Leu Leu Ser Pro Leu  
   65                    70                    75                    80

Gly Ser Lys Ser Cys Ser Thr Val Glu Xaa  
                   85                  90

<210> 785  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 785  
 Ala Pro Ser Leu Pro Arg Leu Glu Asn Cys Leu Ile Phe Cys Ser Leu  
   1                  5                  10                  15

Asp Val Gln Ser Gln Leu Val Phe Leu Ser  
           20                  25

<210> 786  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 786  
 Ser Ser Pro Ser Arg Val Arg Leu Arg His Thr Pro Gly  
   1                  5                  10

<210> 787  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 787  
 Ser Asn Thr Asn Tyr Cys Phe Met Phe Phe Tyr Phe Pro Val Lys Val  
   1                  5                  10                  15

Leu Val Pro Phe Lys Asn Cys Tyr Ile Leu Ser Leu Leu Ile Leu Pro  
           20                  25                  30

Cys Cys Ile Cys Gly His Gln Phe Pro Arg Xaa Gln Ala Cys Thr Phe  
           35                  40                  45

Cys Leu His Thr Leu Gly Gly Phe Ser Phe Ser Xaa Leu Phe Leu Val  
           50                  55                  60

Leu Leu Ser Phe Tyr Val Gln Thr Gly Phe Ser Val  
           65                  70                  75

<210> 788  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 788  
 Gly Thr Ser Arg His Gly Gln Arg Pro Ile Ala Pro Gly Thr Pro Trp  
           1                  5                  10                  15  
 Gln Arg Glu Pro Arg Val Glu Val Met Asp Pro Ala Gly Gly Pro Arg  
                   20                          25                          30  
 Gly Val Leu Pro Arg Pro Cys Arg Xaa Leu Val Leu Leu Asn Pro Arg  
                   35                          40                          45  
 Gly Gly Lys Gly Lys Ala Leu Gln Leu Phe Arg Ser His Val Gln Pro  
           50                          55                          60  
 Leu Leu Ala Glu Ala Glu Ile Ser Phe Thr Leu Met Leu Thr Glu Arg  
           65                          70                          75                          80  
 Arg Asn His Ala Arg Glu Leu Val Arg Ser Glu Glu Leu Gly Arg Trp  
                           85                          90                          95  
 Xaa Ala Leu Val Val Met Xaa Gly Asp Gly Leu Met His Glu Val Val  
                   100                          105                          110  
 Asn Gly Leu His Gly Ala Ala  
           115

<210> 789  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 789  
 Arg Pro Ile Ala Pro Gly Thr Pro Trp Gln Arg Glu Pro Arg Val Glu  
           1                  5                  10                  15  
 Val Met Asp Pro Ala Gly Gly Pro  
                   20

<210> 790  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 790  
 Ala Ser Gly Pro Leu Met Gly Xaa Ala Val Leu Lys Ile Phe Glu  
           1                  5                  10                  15

<210> 791  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 791  
 Leu Leu Arg Ser Ala Leu Xaa Ser Pro His Leu Pro Thr Pro Val Pro  
           1                  5                  10                  15

Leu Val

<210> 792  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 792

Gln Xaa Arg Asn Leu Ala Gln Glu Ala Phe Lys Trp Ile Pro Gln Asp  
1 5 10 15

Arg Pro Thr Val Arg Ser Arg Xaa Arg Met Gly Leu Ser Ile Arg Leu  
20 25 30

Pro Ile Leu Ala Ser Asn Cys Cys Ala Leu Pro Phe Xaa Xaa Pro Thr  
35 40 45

Ser Pro Leu Gln Cys Leu Trp Ser Cys His Cys Ser Phe Gln Ala Asn  
50 55 60

Thr Gly Leu Ala Ser  
65

<210> 793

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 793

Gln Met Thr Gln Glu Pro Pro Thr Ser Val Arg Ala His Gly Ile Ala  
1 5 10 15

Ala Trp Gly Asn Gly Cys Arg Asp Lys Asn Thr Lys Arg Leu Ile Gln  
20 25 30

Tyr Trp Pro Glu Ser Cys Ser Gly Met Thr Lys Gly Thr Gly Val Gly  
35 40 45

Arg Trp Gly Glu Xaa Arg Ala Glu Arg Ser Ser  
50 55

<210> 794

<211> 21

<212> PRT

<213> Homo sapiens

<400> 794

His Gly Ile Ala Ala Trp Gly Asn Gly Cys Arg Asp Lys Asn Thr Lys  
1 5 10 15

Arg Leu Ile Gln Tyr  
20

<210> 795

<211> 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 795

Cys Glu Arg Ser Gly Tyr Thr Arg Met Ala Met Asp Thr  
 1 5 10

&lt;210&gt; 796

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 796

Thr Gly Ser Ile Leu Ala Val Gly Lys Lys Tyr Ser Leu Gly Ser Tyr  
 1 5 10 15

Ser Arg Gly Asp Trp His Met Arg Val Val Gly Leu Arg Gly Leu Gly  
 20 25 30

Ala Ser Thr Leu Gln Gly Leu Leu Ile Gly Ile Lys Pro Asn Lys Pro  
 35 40 45

Gln Gly Arg Gly Lys Leu Gln Gly Arg Ser Ser Arg Lys Asp Thr Val  
 50 55 60

Leu Trp Pro Ser Pro Glu His Pro His Met Val Ser Met Ala Ile Leu  
 65 70 75 80

Val Tyr Pro Asp Leu Ser His Tyr Ser Asn Pro His Ser Thr Pro Ala  
 85 90 95

Ala Leu Leu Gly Cys Trp Pro Pro Phe Arg Glu Gly Glu Ile Leu Gly  
 100 105 110

Leu Gln Arg Pro Gly Gln Trp Pro Glu Glu Arg Cys Asp Arg Pro Trp  
 115 120 125

Leu Pro Pro Cys  
 130

&lt;210&gt; 797

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 797

Gly Ser Tyr Ser Arg Gly Asp Trp His Met Arg Val Val Gly Leu Arg  
 1 5 10 15

Gly Leu Gly Ala Ser Thr Leu Gln Gly Leu Leu Ile Gly  
 20 25

&lt;210&gt; 798

&lt;211&gt; 27

&lt;212&gt; PRT

<213> Homo sapiens

<400> 798

Ser Thr Pro Ala Ala Leu Leu Gly Cys Trp Pro Pro Phe Arg Glu Gly  
1 5 10 15

Glu Ile Leu Gly Leu Gln Arg Pro Gly Gln Trp  
20 25

<210> 799

<211> 44

<212> PRT

<213> Homo sapiens

<400> 799

Thr Met Gly Thr Trp Val Asp Trp Leu Thr Thr Asn Thr Ala His Thr  
1 5 10 15

Pro Ala Ile Ala Ala Ala Ile Cys Ala Glu Asp Phe Pro Gln Arg His  
20 25 30

Cys Gly Ser Val Glu Arg Ser Pro Asp Gln Ala Cys  
35 40

<210> 800

<211> 23

<212> PRT

<213> Homo sapiens

<400> 800

Thr Asn Thr Ala His Thr Pro Ala Ile Ala Ala Ala Ile Cys Ala Glu  
1 5 10 15

Asp Phe Pro Gln Arg His Cys  
20

<210> 801

<211> 15

<212> PRT

<213> Homo sapiens

<400> 801

Met Ser Pro Glu Thr Lys Gly Lys Gly Arg Ser Phe Pro Leu Lys  
1 5 10 15

<210> 802

<211> 82

<212> PRT

<213> Homo sapiens

<400> 802

Cys Gln Asn Lys Cys Ser Glu Thr Thr Cys Gly Arg Thr Arg Arg Glu  
1 5 10 15



Ser Asn Lys Gln Ala Arg Ala Met Ala Phe Ile Phe Lys Gly Lys Asp  
                   20                  25                  30

Leu Pro Phe Pro Phe Val Ser Gly Asp Ile Gln Pro Lys Ser Ser Gly  
           35                  40                  45

Ser Met Ala Pro Asp Gln Gln Gly Leu Cys Tyr Leu Gly Ser Trp Arg  
       50                  55                  60

Ser His Leu Tyr Cys Arg Leu Leu Pro Met Asp Gln Val Ser Pro Ala  
       65                  70                  75                  80

Leu Cys

<210> 803

<211> 63

<212> PRT

<213> Homo sapiens

<400> 803

Lys Pro Ser Pro Gly Leu Ala Tyr Cys Ser Leu Ser Trp Ser Phe His  
       1                  5                  10                  15

Met Leu Phe Leu Asn Ile Cys Ser Gly Ile Thr Ile Pro Val Ile Leu  
                   20                  25                  30

Ser Ser Gly Pro Ser His Leu Ser Thr Leu Ser Leu Ala Val Ser Pro  
           35                  40                  45

Arg Arg Pro Gly Thr Trp Val Lys Ala Cys Ser Cys Trp Cys Pro  
       50                  55                  60

<210> 804

<211> 25

<212> PRT

<213> Homo sapiens

<400> 804

Asn Lys Gln Ala Arg Ala Met Ala Phe Ile Phe Lys Gly Lys Asp Leu  
       1                  5                  10                  15

Pro Phe Pro Phe Val Ser Gly Asp Ile  
           20                  25

<210> 805

<211> 21

<212> PRT

<213> Homo sapiens

<400> 805

Tyr Leu Gly Ser Trp Arg Ser His Leu Tyr Cys Arg Leu Leu Pro Met  
       1                  5                  10                  15

Asp Gln Val Ser Pro

20

<210> 806  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 806  
 Gly Ile Thr Ile Pro Val Ile Leu Ser Ser Gly Pro Ser His Leu Ser  
           1                  5                  10                  15

Thr Leu Ser Leu Ala Val Ser Pro Arg  
                   20                  25

<210> 807  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 807  
 Leu Glu Arg Leu Gly Val Gly Arg Gly Leu Glu  
           1                  5                  10

<210> 808  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 808  
 Asp Leu Pro Pro Cys Trp Thr Thr Leu Lys Glu His Gln Cys Phe Met  
           1                  5                  10                  15

Gln Tyr Gln Leu Phe Thr Ile Gln Cys Lys Val Val Glu Gln Thr Ile  
                   20                  25                  30

Cys Glu Asp Glu Arg Lys Met Glu Ser Thr Cys Leu Thr Leu Ala Xaa  
           35                  40                  45

Pro Glu Ser Val Arg Gln Xaa Cys Pro Ala Thr Leu Trp Ser Ser Met  
           50                  55                  60

Asn Ile Cys  
           65

&lt;210&gt; 809

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 809

Thr Asn Arg Val Xaa Leu Ser Trp Arg Lys Glu Glu Gln Arg Met Gly  
 1 5 10 15

Arg Thr Glu Thr Gly Ala Lys Asp Lys Gly Arg Asp Phe Leu Glu Arg  
 20 25 30

Gly Ser Arg Gly Trp Gln Leu Tyr Thr Gly Ala Ala Asp Thr Glu Glu  
 35 40 45

Val

&lt;210&gt; 810

&lt;211&gt; 207

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 810

Glu Gln Val Leu Ala Leu Leu Trp Pro Arg Phe Glu Leu Ile Leu Glu  
 1 5 10 15

Met Asn Val Gln Ser Val Arg Ser Thr Asp Pro Gln Arg Leu Gly Gly  
 20 25 30

Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu Phe Ser  
 35 40 45

Ser Ala Leu Val Ser Ile Asn Gln Thr Ile Pro Asn Glu Arg Thr Met  
 50 55 60

Gln Leu Leu Gly Gln Leu Gln Val Glu Val Glu Asn Phe Val Leu Arg  
 65 70 75 80

Val Ala Ala Glu Phe Ser Ser Arg Lys Glu Gln Leu Val Phe Leu Ile  
 85 90 95

Asn Asn Tyr Asp Met Met Leu Gly Val Leu Met Glu Arg Ala Ala Asp  
 100 105 110

Asp Ser Lys Glu Val Glu Ser Phe Gln Gln Leu Leu Asn Ala Arg Thr  
 115 120 125

Gln Glu Phe Ile Glu Glu Leu Leu Ser Pro Pro Phe Gly Gly Leu Val  
 130 135 140

Ala Phe Val Lys Glu Ala Glu Ala Leu Ile Glu Arg Gly Gln Ala Glu

|   |     |     |  |     |  |     |
|---|-----|-----|--|-----|--|-----|
| 145   |     | 150 |  | 155 |  | 160 |
| Arg Leu Arg Gly Glu Glu Ala Arg Val Thr Gln Leu Ile Arg Gly Phe |     |     |  |     |  |     |
|   | 165 |     |  | 170 |  | 175 |
| Gly Ser Ser Trp Lys Ser Ser Val Glu Ser Leu Ser Gln Asp Val Met |     |     |  |     |  |     |
|   | 180 |     |  | 185 |  | 190 |
| Arg Ser Phe Thr Asn Phe Arg Asn Gly Thr Ser Ile Ile Gln Gly     |     |     |  |     |  |     |
|   | 195 |     |  | 200 |  | 205 |

<210> 811  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

|   |
|---|
| <400> 811   |
| Ala Leu Leu Lys Tyr Arg Phe Phe Tyr Gln Phe Leu Leu Gly Asn Glu |
| 1 5 10 15   |
| Arg Ala Thr Ala Lys Glu Ile Arg Asp Glu Tyr Val Glu Thr Leu Ser |
| 20 25 30  |
| Lys Ile Tyr Leu Ser Tyr Tyr Arg Ser Tyr Leu Gly Arg Leu Met Lys |
| 35 40 45  |
| Val Gln Tyr Glu Glu Val Ala Glu Lys Asp Asp Leu Met Gly Val Glu |
| 50 55 60  |
| Asp Thr Ala Lys Lys Gly Phe Xaa Ser Lys Pro Ser Leu Arg Ser Arg |
| 65 70 75 80   |
| Asn Thr Ile Phe Thr Leu Gly Thr Arg Gly Ser Val Ile Ser Pro Thr |
| 85 90 95  |
| Glu Leu Glu Ala Pro Ile Leu Val Pro His Thr Ala Gln Arg         |
| 100 105 110   |

<210> 812  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812

Glu Gln Arg Tyr Pro Phe Glu Ala Leu Phe Arg Ser Gln His Tyr Xaa  
1 5 10 15

Leu Leu Asp Asn Ser Cys Arg Glu Tyr Leu Phe Ile Cys Glu Phe Phe  
20 25 30

Val Val Ser Gly Pro Xaa Ala His Asp Leu Phe His Ala Val Met Gly  
35 40 45

Arg Thr Leu Ser Met Thr Leu Lys His Leu Asp Ser Tyr Leu Ala Asp  
50 55 60

Cys Tyr Asp Ala Ile Ala Val Phe Leu Cys Ile His Ile Val Leu Arg  
65 70 75 80

Phe Arg Asn Ile Ala Ala Lys Arg Asp Val Pro Ala Leu Asp Arg Tyr  
85 90 95

Trp

<210> 813

<211> 26

<212> PRT

<213> Homo sapiens

<400> 813

Gly Gly Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu  
1 5 10 15

Phe Ser Ser Ala Leu Val Ser Ile Asn Gln  
20 25

<210> 814

<211> 20

<212> PRT

<213> Homo sapiens

<400> 814

Ser Arg Lys Glu Gln Leu Val Phe Leu Ile Asn Asn Tyr Asp Met Met  
1 5 10 15

Leu Gly Val Leu  
20

<210> 815

<211> 411

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (149)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 815

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Leu | Lys | Tyr | Arg | Phe | Phe | Tyr | Gln | Phe | Leu | Leu | Gly | Asn | Glu |
| 1   |     |     | 5   |     |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Thr | Ala | Lys | Glu | Ile | Arg | Asp | Glu | Tyr | Val | Glu | Thr | Leu | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ile | Tyr | Leu | Ser | Tyr | Tyr | Arg | Ser | Tyr | Leu | Gly | Arg | Leu | Met | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gln | Tyr | Glu | Glu | Val | Ala | Glu | Lys | Asp | Asp | Leu | Met | Gly | Val | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Thr | Ala | Lys | Lys | Gly | Phe | Xaa | Ser | Lys | Pro | Ser | Leu | Arg | Ser | Arg |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Thr | Ile | Phe | Thr | Leu | Gly | Thr | Arg | Gly | Ser | Val | Ile | Ser | Pro | Thr |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Glu | Ala | Pro | Ile | Leu | Val | Pro | His | Thr | Ala | Gln | Arg | Xaa | Glu |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Arg | Tyr | Pro | Phe | Glu | Ala | Leu | Phe | Arg | Ser | Gln | His | Tyr | Xaa | Leu |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Asn | Ser | Cys | Arg | Glu | Tyr | Leu | Phe | Ile | Cys | Glu | Phe | Phe | Val |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Gly | Pro | Xaa | Ala | His | Asp | Leu | Phe | His | Ala | Val | Met | Gly | Arg |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Ser | Met | Thr | Leu | Lys | His | Leu | Asp | Ser | Tyr | Leu | Ala | Asp | Cys |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asp | Ala | Ile | Ala | Val | Phe | Leu | Cys | Ile | His | Ile | Val | Leu | Arg | Phe |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asn | Ile | Ala | Ala | Lys | Arg | Asp | Val | Pro | Ala | Leu | Asp | Arg | Tyr | Trp |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |

Glu Gln Val Leu Ala Leu Leu Trp Pro Arg Phe Glu Leu Ile Leu Glu  
210 215 220

Met Asn Val Gln Ser Val Arg Ser Thr Asp Pro Gln Arg Leu Gly Gly  
225 230 235 240

Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu Phe Ser  
245 250 255

Ser Ala Leu Val Ser Ile Asn Gln Thr Ile Pro Asn Glu Arg Thr Met  
260 265 270

Gln Leu Leu Gly Gln Leu Gln Val Glu Val Glu Asn Phe Val Leu Arg  
275 280 285

Val Ala Ala Glu Phe Ser Ser Arg Lys Glu Gln Leu Val Phe Leu Ile  
290 295 300

Asn Asn Tyr Asp Met Met Leu Gly Val Leu Met Glu Arg Ala Ala Asp  
305 310 315 320

Asp Ser Lys Glu Val Glu Ser Phe Gln Gln Leu Leu Asn Ala Arg Thr  
325 330 335

Gln Glu Phe Ile Glu Glu Leu Leu Ser Pro Pro Phe Gly Gly Leu Val  
340 345 350

Ala Phe Val Lys Glu Ala Glu Ala Leu Ile Glu Arg Gly Gln Ala Glu  
355 360 365

Arg Leu Arg Gly Glu Glu Ala Arg Val Thr Gln Leu Ile Arg Gly Phe  
370 375 380

Gly Ser Ser Trp Lys Ser Ser Val Glu Ser Leu Ser Gln Asp Val Met  
385 390 395 400

Arg Ser Phe Thr Asn Phe Arg Asn Gly Thr Ser  
405 410

<210> 816

<211> 82

<212> PRT

<213> Homo sapiens

<400> 816

Pro Ala Asp Leu Arg Ala Val Ser Gly Thr Ser Glu Val Gly Leu Met  
1 5 10 15

Leu Leu Glu Leu His His Lys Val Val Asn Val Asp Glu Leu Ser Pro  
20 25 30

Gly Arg Glu Gly Ser Glu Leu Arg Leu Gly Gln His Pro Val Glu Ala  
35 40 45

Met Ile Glu Leu Asp Gln Leu Gly Gln Arg Ser Leu Asn Asp Thr Gly  
50 55 60

Ala Ile Ser Glu Val Gly Glu Thr Pro His Tyr Ile Leu Thr Gln Arg  
 65 70 75 80

Phe His

<210> 817  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 817  
 Gly Pro His Pro Gly Ala Ser His Ser Ala Ala Xaa Glu Gln Arg Tyr  
 1 5 10 15

Pro Phe Glu Ala Leu Phe Arg Ser Gln His Tyr Xaa Leu Leu Asp Asn  
 20 25 30

Ser Cys Arg Glu Tyr Leu Phe Ile Cys Glu Phe Phe Val Val Ser Gly  
 35 40 45

Pro Xaa Ala His Asp Leu Phe His Ala Val Met Gly Arg Thr Leu Ser  
 50 55 60

Met Thr Leu Lys His Leu Asp Ser Tyr Leu Ala Asp Cys Tyr Asp Ala  
 65 70 75 80

Ile Ala Val Phe Leu Cys Ile His Ile Val Leu Arg Phe Arg Asn Ile  
 85 90 95

Ala Ala Lys Arg Asp Val Pro Ala Leu Asp Arg Tyr Trp Gly Thr Gly  
 100 105 110

Ala Cys Leu Ala Met Ala Thr Val  
 115 120

<210> 818  
 <211> 303  
 <212> PRT  
 <213> Homo sapiens



&lt;400&gt; 818

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Glu | Gly | Lys | Glu | Phe | Asp | Tyr | Val | Phe | Ser | Ile | Asp | Val | Asn | Glu | 1   | 5   | 10  | 15  |
| Gly | Gly | Pro | Ser | Tyr | Lys | Leu | Pro | Tyr | Asn | Thr | Ser | Asp | Asp | Pro | Trp | 20  | 25  | 30  |     |
| Leu | Thr | Ala | Tyr | Asn | Phe | Leu | Gln | Lys | Asn | Asp | Leu | Asn | Pro | Met | Phe | 35  | 40  | 45  |     |
| Leu | Asp | Gln | Val | Ala | Lys | Phe | Ile | Ile | Asp | Asn | Thr | Lys | Gly | Gln | Met | 50  | 55  | 60  |     |
| Leu | Gly | Leu | Gly | Asn | Pro | Ser | Phe | Ser | Asp | Pro | Phe | Thr | Gly | Gly | Gly | 65  | 70  | 75  | 80  |
| Arg | Tyr | Val | Pro | Gly | Ser | Ser | Gly | Ser | Ser | Asn | Thr | Leu | Pro | Thr | Ala | 85  | 90  | 95  |     |
| Asp | Pro | Phe | Thr | Gly | Ala | Gly | Arg | Tyr | Val | Pro | Gly | Ser | Ala | Ser | Met | 100 | 105 | 110 |     |
| Gly | Thr | Thr | Met | Ala | Gly | Val | Asp | Pro | Phe | Thr | Gly | Asn | Ser | Ala | Tyr | 115 | 120 | 125 |     |
| Arg | Ser | Ala | Ala | Ser | Lys | Thr | Met | Asn | Ile | Tyr | Phe | Pro | Lys | Lys | Glu | 130 | 135 | 140 |     |
| Ala | Val | Thr | Phe | Asp | Gln | Ala | Asn | Pro | Thr | Gln | Ile | Leu | Gly | Lys | Leu | 145 | 150 | 155 | 160 |
| Lys | Glu | Leu | Asn | Gly | Thr | Ala | Pro | Glu | Glu | Lys | Lys | Leu | Thr | Glu | Asp | 165 | 170 | 175 |     |
| Asp | Leu | Ile | Leu | Leu | Glu | Lys | Ile | Leu | Ser | Leu | Ile | Cys | Asn | Ser | Ser | 180 | 185 | 190 |     |
| Ser | Glu | Lys | Pro | Thr | Val | Gln | Gln | Leu | Gln | Ile | Leu | Trp | Lys | Ala | Ile | 195 | 200 | 205 |     |
| Asn | Cys | Pro | Glu | Asp | Ile | Val | Phe | Pro | Ala | Leu | Asp | Ile | Leu | Arg | Leu | 210 | 215 | 220 |     |
| Ser | Ile | Lys | His | Pro | Ser | Val | Asn | Glu | Asn | Phe | Cys | Asn | Glu | Lys | Glu | 225 | 230 | 235 | 240 |
| Gly | Ala | Gln | Phe | Ser | Ser | His | Leu | Ile | Asn | Leu | Leu | Asn | Pro | Lys | Gly | 245 | 250 | 255 |     |
| Lys | Pro | Ala | Asn | Gln | Leu | Leu | Ala | Leu | Arg | Thr | Phe | Cys | Asn | Cys | Phe | 260 | 265 | 270 |     |
| Val | Gly | Gln | Ala | Gly | Gln | Lys | Leu | Met | Met | Ser | Gln | Arg | Glu | Ser | Leu | 275 | 280 | 285 |     |
| Met | Ser | His | Ala | Ile | Glu | Leu | Lys | Ser | Gly | Ser | Asn | Lys | Asn | Ile | 290 | 295 | 300 |     |     |

<210> 819  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 819  
 His Ile Ala Leu Ala Thr Leu Ala Leu Asn Tyr Ser Val Cys Phe His  
 1 5 10 15

Lys Asp

<210> 820  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 820  
 His Asn Ile Glu Gly Lys Ala Gln Cys Leu Ser Leu Ile Ser Thr Ile  
 1 5 10 15

Leu Glu Val Val Gln Asp Leu Glu Ala Thr Phe Arg Leu Leu Val Ala  
 20 25 30

Leu Gly Thr Leu Ile Ser Asp Asp Ser Asn Ala Val Gln Leu Ala Lys  
 35 40 45

Ser

<210> 821  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 821  
 Leu Gly Val Asp Ser Gln Ile Lys Lys Tyr Ser Ser Val Ser Glu Pro  
 1 5 10 15

Ala Lys Val Ser Glu Cys Cys Arg Phe Ile Leu Asn Leu Leu  
 20 25 30

<210> 822  
 <211> 400  
 <212> PRT  
 <213> Homo sapiens

<400> 822  
 Tyr Glu Gly Lys Glu Phe Asp Tyr Val Phe Ser Ile Asp Val Asn Glu  
 1 5 10 15

Gly Gly Pro Ser Tyr Lys Leu Pro Tyr Asn Thr Ser Asp Asp Pro Trp  
 20 25 30

Leu Thr Ala Tyr Asn Phe Leu Gln Lys Asn Asp Leu Asn Pro Met Phe  
 35 40 45  
 Leu Asp Gln Val Ala Lys Phe Ile Ile Asp Asn Thr Lys Gly Gln Met  
 50 55 60  
 Leu Gly Leu Gly Asn Pro Ser Phe Ser Asp Pro Phe Thr Gly Gly Gly  
 65 70 75 80  
 Arg Tyr Val Pro Gly Ser Ser Gly Ser Ser Asn Thr Leu Pro Thr Ala  
 85 90 95  
 Asp Pro Phe Thr Gly Ala Gly Arg Tyr Val Pro Gly Ser Ala Ser Met  
 100 105 110  
 Gly Thr Thr Met Ala Gly Val Asp Pro Phe Thr Gly Asn Ser Ala Tyr  
 115 120 125  
 Arg Ser Ala Ala Ser Lys Thr Met Asn Ile Tyr Phe Pro Lys Lys Glu  
 130 135 140  
 Ala Val Thr Phe Asp Gln Ala Asn Pro Thr Gln Ile Leu Gly Lys Leu  
 145 150 155 160  
 Lys Glu Leu Asn Gly Thr Ala Pro Glu Glu Lys Lys Leu Thr Glu Asp  
 165 170 175  
 Asp Leu Ile Leu Leu Glu Lys Ile Leu Ser Leu Ile Cys Asn Ser Ser  
 180 185 190  
 Ser Glu Lys Pro Thr Val Gln Gln Leu Gln Ile Leu Trp Lys Ala Ile  
 195 200 205  
 Asn Cys Pro Glu Asp Ile Val Phe Pro Ala Leu Asp Ile Leu Arg Leu  
 210 215 220  
 Ser Ile Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu  
 225 230 235 240  
 Gly Ala Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro Lys Gly  
 245 250 255  
 Lys Pro Ala Asn Gln Leu Leu Ala Leu Arg Thr Phe Cys Asn Cys Phe  
 260 265 270  
 Val Gly Gln Ala Gly Gln Lys Leu Met Met Ser Gln Arg Glu Ser Leu  
 275 280 285  
 Met Ser His Ala Ile Glu Leu Lys Ser Gly Ser Asn Lys Asn Ile His  
 290 295 300  
 Ile Ala Leu Ala Thr Leu Ala Leu Asn Tyr Ser Val Cys Phe His Lys  
 305 310 315 320  
 Asp His Asn Ile Glu Gly Lys Ala Gln Cys Leu Ser Leu Ile Ser Thr  
 325 330 335  
 Ile Leu Glu Val Val Gln Asp Leu Glu Ala Thr Phe Arg Leu Leu Val

340

345

350

Ala Leu Gly Thr Leu Ile Ser Asp Asp Ser Asn Ala Val Gln Leu Ala  
 355 360 365

Lys Ser Leu Gly Val Asp Ser Gln Ile Lys Lys Tyr Ser Ser Val Ser  
 370 375 380

Glu Pro Ala Lys Val Ser Glu Cys Cys Arg Phe Ile Leu Asn Leu Leu  
 385 390 395 400

&lt;210&gt; 823

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 823

Leu Asn Leu Leu Leu Ile Thr Gln Lys Val Lys Cys Trp Asp Leu Gly  
 1 5 10 15

Ile Pro Ala Phe Gln Ile His Leu Gln Val Val Val Gly  
 20 25

&lt;210&gt; 824

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 824

Ile Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu Gly  
 1 5 10 15

Ala Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro  
 20 25

&lt;210&gt; 825

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

Ala Ile Glu Leu Lys Ser Gly Ser Asn Lys Asn Ile His Ile Ala Leu  
 1 5 10 15

Ala Thr Leu Ala Leu Asn  
 20

&lt;210&gt; 826

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 826

Val Gln Leu Ala Lys Ser Leu Gly Val Asp Ser Gln Ile Lys Lys Tyr  
 1 5 10 15

Ser Ser Val Ser Glu Pro Ala  
 20

&lt;210&gt; 827

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 827

Tyr Glu Gly Lys Glu Phe Asp Tyr Val Phe Ser Ile Asp Val Asn Glu  
 1 5 10 15

Gly Gly Pro Ser Tyr Lys Leu Pro Tyr Asn  
 20 25

&lt;210&gt; 828

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 828

Ala Tyr Asn Phe Leu Gln Lys Asn Asp Leu Asn Pro Met Phe Leu Asp  
 1 5 10 15

Gln Val Ala Lys Phe Ile Ile Asp Asn Thr  
 20 25

&lt;210&gt; 829

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 829

Ser Phe Ser Asp Pro Phe Thr Gly Gly Gly Arg Tyr Val Pro Gly  
 1 5 10 15

&lt;210&gt; 830

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 830

Thr Ala Asp Pro Phe Thr Gly Ala Gly Arg Tyr  
 1 5 10

&lt;210&gt; 831

&lt;211&gt; 19

&lt;212&gt; PRT

<213> Homo sapiens

<400> 831

Thr Thr Met Ala Gly Val Asp Pro Phe Thr Gly Asn Ser Ala Tyr Arg  
1 5 10 15

Ser Ala Ala

<210> 832

<211> 9

<212> PRT

<213> Homo sapiens

<400> 832

Asn Ile Tyr Phe Pro Lys Lys Glu Ala  
1 5

<210> 833

<211> 19

<212> PRT

<213> Homo sapiens

<400> 833

Thr Phe Asp Gln Ala Asn Pro Thr Gln Ile Leu Gly Lys Leu Lys Glu  
1 5 10 15

Leu Asn Gly

<210> 834

<211> 30

<212> PRT

<213> Homo sapiens

<400> 834

Pro Glu Asp Ile Val Phe Pro Ala Leu Asp Ile Leu Arg Leu Ser Ile  
1 5 10 15

Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu  
20 25 30

<210> 835

<211> 31

<212> PRT

<213> Homo sapiens

<400> 835

Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro Lys Gly Lys Pro  
1 5 10 15

Ala Asn Gln Leu Leu Ala Leu Arg Thr Phe Cys Asn Cys Phe Val  
20 25 30

<210> 836  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 836  
 Gln Ala Gly Gln Lys Leu Met Met Ser Gln Arg Glu Ser Leu Met Ser  
 1 5 10 15  
 His Ala Ile Glu Leu Lys Ser Gly Ser Asn  
 20 25

<210> 837  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 837  
 Tyr Pro Asn Gln Asp Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu  
 1 5 10 15  
 His Ile Gln Arg Leu Ser Lys Val Val Thr Ala Asn His Arg Ala Leu  
 20 25 30  
 Gln Ile Pro Glu Val Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln  
 35 40 45  
 Ser Glu Ile Arg Thr Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val  
 50 55 60  
 Gln Cys Ile Leu Arg Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu  
 65 70 75 80  
 Ala Asn Glu Asp Ser Val Pro Gly Ala Asp Asp Phe Val Pro Val Leu  
 85 90 95  
 Val Phe Val Leu Ile Lys Ala Asn Pro Pro Cys Leu Leu Ser Thr Val  
 100 105 110  
 Gln Tyr Ile Ser Ser Phe Tyr Ala Ser Cys Leu Ser Gly Glu Glu Ser  
 115 120 125  
 Tyr Trp Trp Met Gln Phe Thr Ala Ala Val Glu  
 130 135

<210> 838  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<400> 838  
 Tyr Pro Asn Gln Asp Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu  
 1 5 10 15  
 His Ile Gln Arg Leu Ser Lys Val Val Thr Ala Asn His Arg Ala Leu

20

25

30

Gln Ile Pro Glu Val Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln  
 35 40 45

Ser Glu Ile Arg Thr Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val  
 50 55 60

Gln Cys Ile Leu Arg Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu  
 65 70 75 80

Ala Asn Glu Asp Ser Val Pro Gly Ala Asp Asp Phe Val Pro Val Leu  
 85 90 95

Val Phe Val Leu Ile Lys Ala Asn Pro Pro Cys Leu Leu Ser Thr Val  
 100 105 110

Gln Tyr Ile Ser Ser Phe Tyr Ala Ser Cys Leu Ser Gly Glu Glu Ser  
 115 120 125

Tyr Trp Trp Met Gln Phe Thr Ala Ala Val Glu Phe Ile Lys Thr Ile  
 130 135 140

<210> 839

<211> 14

<212> PRT

<213> Homo sapiens

<400> 839

Tyr Pro Asn Gln Asp Gly Asp Ile Leu Arg Asp Gln Val Leu  
 1 5 10

<210> 840

<211> 11

<212> PRT

<213> Homo sapiens

<400> 840

Glu Ala Pro Trp Pro Ser Ala Gln Ser Glu Ile  
 1 5 10

<210> 841

<211> 21

<212> PRT

<213> Homo sapiens

<400> 841

Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln Phe Thr Ala Ala Val Glu  
 1 5 10 15

Phe Ile Lys Thr Ile  
 20



<210> 842  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 842  
 Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn  
   1                  5                  10                  15

Pro Pro

<210> 843  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 843  
 Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu  
   1                  5                  10

<210> 844  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 844  
 Gly Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys  
   1                  5                  10                  15

<210> 845  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 845  
 Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn Pro  
   1                  5                  10

<210> 846  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 846  
 Ser Ala Arg Ala Ser Thr Gln Pro Pro Ala Gly Gln His Pro Gly Pro  
   1                  5                  10                  15

Cys

<210> 847  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 847  
 Met Pro Gly Arg Trp Arg Trp Gln Arg Asp Met His Pro Ala Arg Lys  
   1                  5                  10                  15  
 Leu Leu Ser Leu Leu Phe Leu Ile Leu Met Gly Thr Glu Leu Thr Gln  
           20                  25                  30

Asp

<210> 848  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 848  
 Ser Ala Ala Pro Asp Ser Leu Leu Arg Ser Ser Lys Gly Ser Thr Arg  
   1                  5                  10                  15

Gly Ser Leu

<210> 849  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 849  
 Ala Ala Ile Val Ile Trp Arg Gly Lys Ser Glu Ser Arg Ile Ala Lys  
   1                  5                  10                  15

Thr Pro Gly Ile  
           20

<210> 850  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 850  
 Pro Leu Gly Ile Thr Leu Pro Leu Gly Ala Pro Glu Thr Gly Gly Gly  
   1                  5                  10                  15

Asp

<210> 851  
 <211> 20  
 <212> PRT

<213> Homo sapiens

<400> 851

Cys Ala Ala Glu Thr Trp Lys Gly Ser Gln Arg Ala Gly Gln Leu Cys  
1 5 10 15

Ala Leu Leu Ala  
20

<210> 852

<211> 20

<212> PRT

<213> Homo sapiens

<400> 852

Phe Arg Gly Gly Gly Thr Leu Val Leu Pro Pro Thr His Thr Pro Glu  
1 5 10 15

Trp Leu Ile Leu  
20

<210> 853

<211> 28

<212> PRT

<213> Homo sapiens

<400> 853

Asn Ser Ala Arg Ala Ser Thr Gln Pro Pro Ala Gly Gln His Pro Gly  
1 5 10 15

Pro Cys Met Pro Gly Arg Trp Arg Trp Gln Arg Asp  
20 25

<210> 854

<211> 80

<212> PRT

<213> Homo sapiens

<400> 854

Tyr Ile Val Gln Gly Thr Thr Ser Pro Phe Glu Met Pro Thr Ile Pro  
1 5 10 15

Thr Pro Ala Arg His Arg Ala Pro His Ser Pro Pro Ala Gly His Val  
20 25 30

Ala Thr Ala Pro Gln Ala Leu His Ile Lys Pro Ala Met His Thr Ala  
35 40 45

Gly Arg His Ala Gly Cys Pro Ser Arg Ser Gln Arg His Asn Pro His  
50 55 60

Arg Leu Phe Leu Glu Pro Pro Arg Ala Ala Leu Cys Pro Lys Gly Gly  
65 70 75 80

<210> 855  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 855  
 Ala Ser Asn Ala His Ser Trp Pro Ala Arg Trp Leu Pro Phe Gln Val  
   1                  5                  10                  15  
 Ser Ala Ala Gln Ser Pro Pro Pro Val Ser Gly Ala Pro Lys Gly Ser  
                   20                  25                  30  
 Val Met Pro Lys Gly Arg Met Ser His Ser Gly Val Cys Val Gly Gly  
                   35                  40                  45  
 Arg Thr Lys Val Pro Pro Pro Leu Lys Met Pro Gly Val Leu Ala Ile  
                   50                  55                  60  
 Arg Leu Ser Leu Phe Pro Leu Gln Met Thr Ile Ala Ala Lys Asp Pro  
                   65                  70                  75                  80  
 Leu Val Leu Pro Phe Glu Leu Leu Ser Arg Glu Ser Gly Ala Ala Glu  
                   85                  90                  95  
 Ser

<210> 856  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 856  
 Gly Arg Met Ser His Ser Gly Val Cys Val Gly Gly Arg Thr Lys Val  
   1                  5                  10                  15  
 Pro Pro Pro Leu Lys Met Pro Gly Val Leu Ala  
                   20                  25

<210> 857  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 857  
 Gly His Gln Thr Ala Pro Glu Thr Pro Ser Arg Ser Asp  
   1                  5                  10

<210> 858  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 858

Ser Gln Thr Asp Arg  
 1 5

&lt;210&gt; 859

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 859

Asn Ile Tyr Phe Lys Glu Lys Arg Lys Arg Gly Gly Ala Lys Met Ala  
 1 5 10 15

Gly Ala Ile Ile Glu Asn  
 20

&lt;210&gt; 860

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 860

Val Tyr Leu Cys Ala Tyr Thr Ser Thr Ile Asn Val Thr Val Thr Thr  
 1 5 10 15

Ala Asn Ala Lys Leu Ile Asn Met Cys Cys Leu Val Asp Ser Asn Thr  
 20 25 30

Arg Ser Cys Val Val Ile Asp Glu Gly Ile Phe Arg Ser Ala Glu Gln  
 35 40 45

Phe Leu Ile Lys Phe Arg Asn Lys Gln Ser Thr Ile Phe Pro Arg Phe  
 50 55 60

Thr Trp Glu Leu His Ser Ile Gly Leu Val Phe Ser Ile Val Phe Met  
 65 70 75 80

Gly Trp Cys Ile Gln Glu His Gln Ser Lys Asp Ile Gln Ile Pro His  
 85 90 95

Pro Ile Asp Ala Cys Glu Lys Gly Thr Val His Leu Asp Cys Asp Ala  
 100 105 110

Ala Pro Phe Pro Met Ala Phe Arg Tyr Leu Thr Asn Asp Glu Glu Asp  
 115 120 125

Asp Ser His Gly Ser Ala Gly Gln Gly Asp Lys His Glu Glu Leu Glu  
 130 135 140

Pro Lys Asn  
 145

&lt;210&gt; 861

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 861

Lys Met Pro Cys Arg Met Ser Pro Asn Ser Ser Ile Gln Val Gln Ser  
 1 5 10 15

Asn Pro Met Glu Asn His Ser Thr Gly Ile Leu Ile Lys Val Met Glu  
 20 25 30

Ile Pro Arg Ala Lys Met Thr Phe Ser Arg Ser Thr Gly Gly Arg Asp  
 35 40 45

Ile Met Val Ile Leu Leu Gln Tyr His Thr Ile Met Met Lys Met Leu  
 50 55 60

Gly Val Arg Lys Val Phe Met Ala Asn His Thr Leu Val Lys Pro Pro  
 65 70 75 80

Phe Trp Trp Ile Pro Thr Asn Arg Ile Ser Phe Ile Ser Pro Ile Pro  
 85 90 95

Thr Leu Ile Phe Phe Phe Ser Phe Thr Gly Ser Arg Met Phe Lys Arg  
 100 105 110

&lt;210&gt; 862

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 862

Thr Thr Lys Ser Glu Lys Met Gln Lys Ser Pro Trp Thr Phe Pro Trp  
 1 5 10 15

Leu Thr Val Met Thr His Leu Leu Ser Gly Leu Lys Trp Pro Met Lys  
 20 25 30

Glu Tyr His Gly Asn Ser Asn Ala Pro Ser His Leu Pro Arg Leu Gln  
 35 40 45

Ser Met Arg Ala Val Thr Met Asn Val Met Ser Phe Leu Ser Trp Lys  
 50 55 60

Leu Gly Leu Trp Pro Ile Ser Phe Thr Phe  
 65 70

&lt;210&gt; 863

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 863

Ile Lys Phe Arg Asn Lys Gln Ser Thr Ile Phe Pro Arg Phe Thr Trp

1 5 10 15  
 Glu Leu His Ser Ile Gly Leu Val Phe Ser Ile Val Phe Met Gly  
 20 25 30

<210> 864

<211> 29

<212> PRT

<213> Homo sapiens

<400> 864

Ser Ser Ile Gln Val Gln Ser Asn Pro Met Glu Asn His Ser Thr Gly  
 1 5 10 15

Ile Leu Ile Lys Val Met Glu Ile Pro Arg Ala Lys Met  
 20 25

<210> 865

<211> 33

<212> PRT

<213> Homo sapiens

<400> 865

Leu Gly Val Arg Lys Val Phe Met Ala Asn His Thr Leu Val Lys Pro  
 1 5 10 15

Pro Phe Trp Trp Ile Pro Thr Asn Arg Ile Ser Phe Ile Ser Pro Ile  
 20 25 30

Pro

<210> 866

<211> 9

<212> PRT

<213> Homo sapiens

<400> 866

Thr Met Ala Ser Met Gly Leu Gln Val  
 1 5

<210> 867

<211> 167

<212> PRT

<213> Homo sapiens

<400> 867

Lys Ser Trp Met Met Leu Trp Ala Val Gln Asp Thr Gly Thr Ile Thr  
 1 5 10 15

Ile Arg Pro Ala Asn Arg Asn Thr Thr Pro Ala Thr Ile Met Val Leu  
 20 25 30

Ala Leu Ala Leu Ser Ser Ser Arg Gln Leu Val His Leu Pro Pro Thr

35

40

45

Thr Asp Ser Ser Thr Pro Arg Ala Ala Thr Met Met Leu Met Met Thr  
50 55 60

Arg Ala Arg Ala Ala Cys Arg Ser Cys Gly Ser Ala Ser Ser Glu Ser  
65 70 75 80

Tyr Thr Leu His Cys Ile Trp Pro Val Leu Cys Thr Thr Gln Phe Ile  
85 90 95

His Arg Pro Ser Gln Met Val Cys Glu Val Thr Met Leu Leu Pro Met  
100 105 110

Lys Ala Val Thr Arg His Met Gly Ser Ala Gln His Ser Met Thr Ala  
115 120 125

Ser Gln Pro Arg Thr Ala Ser Ala Met Pro Ile Thr Cys Ser Pro Met  
130 135 140

Glu Ala Ile Val Gln Arg Pro Arg Glu Leu Arg Thr Trp Lys Ala Glu  
145 150 155 160

Gly Ile Arg Leu Trp Gly Pro  
165

<210> 868

<211> 28

<212> PRT

<213> Homo sapiens

<400> 868

Leu Gln Val Met Gly Ile Ala Leu Ala Val Leu Gly Trp Leu Ala Val  
1 5 10 15

Met Leu Cys Cys Ala Leu Pro Met Trp Arg Val Thr  
20 25

<210> 869

<211> 22

<212> PRT

<213> Homo sapiens

<400> 869

Ser Asn Ile Val Thr Ser Gln Thr Ile Trp Glu Gly Leu Trp Met Asn  
1 5 10 15

Cys Val Val Gln Ser Thr  
20

<210> 870

<211> 18

<212> PRT

<213> Homo sapiens



&lt;400&gt; 870

Gln Met Gln Cys Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp  
 1 5 10 15

Leu Gln

&lt;210&gt; 871

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 871

Lys Cys Thr Asn Cys Leu Glu Asp Glu Ser Ala Lys Ala Lys Thr Met  
 1 5 10 15

Ile Val

&lt;210&gt; 872

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 872

Gly Val Val Phe Leu Leu Ala Gly Leu Met Val Ile Val Pro Val Ser  
 1 5 10 15

Trp Thr Ala His Asn Ile Ile Gln Asp Phe Tyr Asn Pro Leu Val Ala  
 20 25 30

&lt;210&gt; 873

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 873

Cys Cys Asn Cys Pro Pro Arg Thr Asp Lys Pro Tyr  
 1 5 10

&lt;210&gt; 874

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 874

Pro Phe Thr Ala Ile Ala Gly Ser Glu Ile Phe Ser Leu Glu  
 1 5 10

&lt;210&gt; 875

<211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 875  
 Ser Lys Thr Glu Ala Leu Thr Gln Ala Phe Arg  
           1                  5                  10

<210> 876  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 876  
 Val Val His Thr Val Ser Leu His Glu Ile Asp Val Ile Asn Ser Arg  
           1                  5                  10                  15

Thr Gln Gly Phe Leu Ala Leu Phe  
                   20

<210> 877  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 877  
 Pro Gly Val Leu Phe Ile Asp Glu Val His Met Leu Asp Ile Glu  
           1                  5                  10                  15

<210> 878  
 <211> 280  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (197)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 878  
 Ala Gly Ile Arg Gln Arg Phe Ser Ala Arg Leu Trp Gln Leu Val Ser  
           1                  5                  10                  15

Ile Met Ala Thr Val Thr Ala Thr Thr Lys Val Pro Glu Ile Arg Asp  
                   20                  25                  30

Val Thr Arg Ile Glu Arg Ile Gly Ala His Ser His Ile Arg Gly Leu  
           35                  40                  45

Gly Leu Asp Asp Ala Leu Glu Pro Arg Gln Ala Ser Gln Gly Met Val  
           50                  55                  60

Gly Gln Leu Ala Ala Arg Arg Ala Ala Gly Val Val Leu Glu Met Ile  
           65                  70                  75                  80

Arg Glu Gly Lys Ile Ala Gly Arg Ala Val Leu Ile Ala Gly Gln Pro  
85 90 95

Gly Thr Gly Lys Thr Ala Ile Ala Met Gly Met Ala Gln Ala Leu Gly  
100 105 110

Pro Asp Thr Pro Phe Thr Ala Ile Ala Gly Ser Glu Ile Phe Ser Leu  
115 120 125

Glu Met Ser Lys Thr Glu Ala Leu Thr Gln Ala Phe Arg Arg Ser Ile  
130 135 140

Gly Val Arg Ile Lys Glu Glu Thr Glu Ile Ile Glu Gly Glu Val Val  
145 150 155 160

Glu Ile Gln Ile Asp Arg Pro Ala Thr Gly Thr Gly Ser Lys Val Gly  
165 170 175

Lys Leu Thr Leu Lys Thr Thr Glu Met Glu Thr Ile Tyr Asp Leu Gly  
180 185 190

Thr Lys Met Ile Xaa Ser Leu Thr Lys Asp Lys Val Gln Ala Gly Asp  
195 200 205

Val Ile Thr Ile Asp Lys Ala Thr Gly Lys Ile Ser Lys Leu Gly Arg  
210 215 220

Ser Phe Thr Arg Ala Arg Glu Leu Arg Arg Tyr Gly Leu Pro Asp Gln  
225 230 235 240

Val Arg Ala Val Pro Arg Trp Gly Ala Pro Glu Thr Gln Gly Gly Gly  
245 250 255

Ala His Arg Val Pro Ala Arg Asp Arg Arg His Gln Leu Ser His Pro  
260 265 270

Gly Leu Pro Gly Ala Leu Leu Arg  
275 280

<210> 879

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 879

Ser Pro Ser Thr Arg Arg Arg Ala Arg Ser Pro Ser Trp Ala Ala Pro  
1 5 10 15

Ser His Ala Pro Ala Asn Tyr Asp Ala Met Gly Ser Gln Thr Lys Phe  
20 25 30

Val Gln Cys Pro Asp Gly Glu Leu Gln Lys Arg Lys Glu Val Val His

35                      40                      45  
 Thr Val Ser Leu His Glu Ile Asp Val Ile Asn Ser Arg Thr Gln Gly  
 50                      55                      60  
 Phe Leu Ala Leu Phe Ser Gly Asp Thr Gly Glu Ile Lys Ser Glu Val  
 65                      70                      75                      80  
 Arg Glu Gln Ile Asn Ala Lys Val Ala Glu Trp Arg Glu Glu Gly Lys  
 85                      90                      95  
 Ala Glu Ile Ile Pro Gly Val Leu Phe Ile Asp Glu Val His Met Leu  
 100                      105                      110  
 Asp Ile Glu Ser Phe Ser Phe Leu Asn Arg Ala Leu Glu Ser Asp Met  
 115                      120                      125  
 Ala Pro Val Gln Gln Val Tyr Gly Asp Ala Val Arg Ala Leu Val Ala  
 130                      135                      140  
 Gly Ala Pro Asp Ser Arg Asp Ala Thr Val Gly Gly Leu Val Pro Asn  
 145                      150                      155                      160  
 Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro Pro Pro Arg  
 165                      170                      175  
 Trp Xaa Ser

<210> 880  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 880  
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Ala Thr Asn Arg Gly  
 1                      5                      10                      15  
 Ile Thr Arg Ile Arg Gly Thr Ser Tyr Gln Ser Pro His Gly Ile Pro  
 20                      25                      30  
 Ile Asp Leu Leu Asp Arg Arg His Val Thr Leu Gln Gly Pro Val Glu  
 35                      40                      45  
 Glu Gly Glu Ala Leu Asp Val Gln His Val Asp Leu Val Asp Glu Gln  
 50                      55                      60  
 His Ser Arg Asp Asp Leu Arg Leu Ala Leu Leu Ala Pro Leu Ser His  
 65                      70                      75                      80  
 Leu Gly Ile Asp Leu Leu Thr Asp Phe  
 85

<210> 881  
 <211> 30  
 <212> PRT

<213> Homo sapiens

<400> 881

Tyr Asp Ala Met Gly Ser Gln Thr Lys Phe Val Gln Cys Pro Asp Gly  
1 5 10 15

Glu Leu Gln Lys Arg Lys Glu Val Val His Thr Val Ser Leu  
20 25 30

<210> 882

<211> 31

<212> PRT

<213> Homo sapiens

<400> 882

Lys Ala Glu Ile Ile Pro Gly Val Leu Phe Ile Asp Glu Val His Met  
1 5 10 15

Leu Asp Ile Glu Ser Phe Ser Phe Leu Asn Arg Ala Leu Glu Ser  
20 25 30

<210> 883

<211> 28

<212> PRT

<213> Homo sapiens

<400> 883

Glu Ala Thr Asn Arg Gly Ile Thr Arg Ile Arg Gly Thr Ser Tyr Gln  
1 5 10 15

Ser Pro His Gly Ile Pro Ile Asp Leu Leu Asp Arg  
20 25

<210> 884

<211> 22

<212> PRT

<213> Homo sapiens

<400> 884

Met Arg Ser Ala Arg Pro Ser Leu Gly Cys Leu Pro Ser Trp Ala Phe  
1 5 10 15

Ser Gln Ala Leu Asn Ile  
20

<210> 885

<211> 22

<212> PRT

<213> Homo sapiens

<400> 885

Leu Leu Gly Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys  
1 5 10 15

Glu Lys Gly Asn Phe Asn  
20

<210> 886  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 886  
Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr Leu Arg Leu  
1 5 10 15

Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg  
20 25

<210> 887  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 887  
Thr Tyr Asn Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln  
1 5 10 15

Arg Cys

<210> 888  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 888  
Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala  
1 5 10 15

Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp  
20 25 30

Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn  
35 40

<210> 889  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 899  
Ser Ile Tyr Glu Leu Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val  
1 5 10 15

Leu Glu Tyr Ala Thr Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr  
20 25 30

Ser Gln Ala Gly Phe Ser Gly Glu Asp Arg Leu Glu Gln  
 35 40 45

<210> 890  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 890  
 Ala Lys Leu Phe Cys Arg Thr Leu Glu Asp Ile Leu Ala Asp Ala Pro  
 1 5 10 15

Glu Ser Gln Asn Asn Cys Arg Leu Ile Ala Tyr Gln Glu Pro Ala Asp  
 20 25 30

Asp Ser Ser Phe Ser Leu Ser Gln Glu Val Leu Arg His Leu Arg Gln  
 35 40 45

Glu Glu Lys Glu Glu Val Thr Val Gly Ser Leu Lys Thr Ser Ala Val  
 50 55 60

Pro Ser Thr Ser Thr Met Ser Gln Glu Pro Glu Leu Leu Ile Ser Gly  
 65 70 75 80

Met Glu Lys Pro Leu Pro Leu Arg Thr Asp Phe Ser  
 85 90

<210> 891  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 891  
 Leu Leu Gly Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys  
 1 5 10 15

Glu Lys Gly Asn Phe Asn Val Ala His Gly Leu Ala Trp Ser Tyr Tyr  
 20 25 30

Ile Gly Tyr Leu Arg Leu Ile Leu Pro Glu Leu  
 35 40

<210> 892  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 892  
 Leu Arg Leu His Ser Glu Lys Leu Pro Leu Ala Ala Arg Ser Ala Gly  
 1 5 10 15

Pro Ser Leu Leu Val Ile Ile Gln Ser Ser Gln Cys Pro Gly Gly Arg  
 20 25 30

Arg Tyr Arg Gly Ser Tyr Trp Arg Thr Val Arg Ala Cys Leu Gly Cys

35

40

45

Pro Leu Arg Arg Gly Ala Leu Leu Leu Leu Ser Ile Tyr Phe Tyr Tyr  
 50 55 60

Ser Leu Pro Asn Ala Val Gly Pro Pro Phe Thr Trp  
 65 70 75

&lt;210&gt; 893

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 893

Val Trp Leu Thr Pro Thr Phe Ala Ser Trp Ile Asn Cys Pro Ser Arg  
 1 5 10 15

Pro Val Thr Val Leu Ala Ser Arg Ile Gly Phe Thr Ala Thr Ala Ser  
 20 25 30

Met Ser Phe Trp Arg Thr Gly Ser Gly Arg Ala Pro Val Ser Trp Ser  
 35 40 45

Thr Pro Pro Pro Cys Arg Leu Cys Leu Pro Cys His Asn Thr Val Lys  
 50 55 60

Leu Ala Leu Ala Gly Arg Ile Gly Leu Ser Arg Pro Asn Ser Ser Ala  
 65 70 75 80

Gly His Leu Arg Thr Ser Trp Gln Met Pro Leu Ser Leu Arg Thr Thr  
 85 90 95

Ala Ala Ser Leu Pro Thr Arg Asn Leu Gln Met Thr Ala Ala Ser Arg  
 100 105 110

Cys Pro Arg Arg Phe Ser Gly Thr Cys Gly Arg Arg Lys Arg Lys Arg  
 115 120 125

Leu Leu Trp Ala Ala  
 130

&lt;210&gt; 894

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 894

Gly Val Cys Gln Val Ser Phe Met Gly Pro Ser Arg Pro Thr Pro His  
 1 5 10 15

Pro Ser Pro Leu Pro Leu Pro Gly Asp Ala Glu Leu Ser Gln Trp Tyr  
 20 25 30

Gln Gln Ala Pro Ser Pro Ser Gly Ser Trp Ser Cys Ser Ile Ile Gly  
 35 40 45



Glu Pro Gln Gln Lys Asn Gly Glu Glu Glu Glu Ala Glu Phe Gly Val  
 50 55 60

Leu Asn Pro Pro Ala Pro Thr Leu Gln His Gln Gly Cys Tyr Gly Leu  
 65 70 75 80

Ser Cys Arg Ala Thr Leu Ala  
 85

<210> 895

<211> 22

<212> PRT

<213> Homo sapiens

<400> 895

Thr Met Lys Leu Leu Lys Leu Arg Arg Asn Ile Val Lys Leu Ser Leu  
 1 5 10 15

Tyr Arg His Phe Thr Asn  
 20

<210> 896

<211> 22

<212> PRT

<213> Homo sapiens

<400> 896

Thr Leu Ile Leu Ala Val Ala Ala Ser Ile Val Phe Ile Ile Trp Thr  
 1 5 10 15

Thr Met Lys Phe Arg Ile  
 20

<210> 897

<211> 28

<212> PRT

<213> Homo sapiens

<400> 897

Val Thr Cys Gln Ser Asp Trp Arg Glu Leu Trp Val Asp Asp Ala Ile  
 1 5 10 15

Trp Arg Leu Leu Phe Ser Met Ile Leu Phe Val Ile  
 20 25

<210> 898

<211> 27

<212> PRT

<213> Homo sapiens

<400> 898

Met Val Leu Trp Arg Pro Ser Ala Asn Asn Gln Arg Phe Ala Phe Ser  
 1 5 10 15

Pro Leu Ser Glu Glu Glu Glu Asp Glu Gln  
 20 25

<210> 899  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 899  
 Met Val Leu Trp Arg Pro Ser Ala Asn Asn Gln Arg Phe Ala Phe Ser  
 1 5 10 15

Pro Leu Ser Glu Glu Glu Glu Asp Glu Gln  
 20 25

<210> 900  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 900  
 Lys Glu Pro Met Leu Lys Glu Ser Phe Glu Gly Met Lys Met Arg Ser  
 1 5 10 15

Thr Lys Gln Glu Pro Asn Gly Asn Ser Lys Val Asn Lys Ala Gln Glu  
 20 25 30

Asp Asp Leu  
 35

<210> 901  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 901  
 Lys Trp Val Glu Glu Asn Val Pro Ser Ser Val Thr Asp Val Ala Leu  
 1 5 10 15

Pro Ala Leu Leu Asp Ser Asp Glu Glu Arg Met Ile Thr His Phe Glu  
 20 25 30

Arg Ser Lys Met Glu  
 35

<210> 902  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 902  
 Asp Pro Arg Val Arg Leu Asn Ser Leu Thr Cys Lys His Ile Phe Ile  
 1 5 10 15

Ser Leu Thr Gln  
20

<210> 903  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 903  
Asn Ala Phe Gly Arg His Ser Thr Ala Val Lys  
1 5 10

<210> 904  
<211> 283  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 904  
Glu Ser Cys Leu Leu Cys Gly Ile Ser Glu Tyr Pro Ile Gln Arg Xaa  
1 5 10 15

Ile Cys Pro Gly Cys Phe Asp Pro Cys Arg Xaa Ala Phe Ser Ser Glu  
20 25 30

Thr Leu Thr Gly Ser Asn Pro Gly His His Ser Gln Ser Gly Ile Trp  
35 40 45

His Arg Gln Ala Thr Pro Gly Val Thr Leu His Lys Val Val Val Ala  
50 55 60

Xaa Ala Leu Tyr Leu Leu Phe Ser Gly Met Glu Gly Val Leu Arg Val  
65 70 75 80

Thr Gly Ala Gln Thr Asp Leu Ala Ser Leu Ala Phe Ile Pro Leu Ala  
85 90 95

Phe Leu Asp Thr Ala Leu Cys Trp Trp Ile Phe Ile Ser Leu Thr Gln  
100 105 110

Thr Met Lys Leu Leu Lys Leu Arg Arg Asn Ile Val Lys Leu Ser Leu  
115 120 125

Tyr Arg His Phe Thr Asn Thr Leu Ile Leu Ala Val Ala Ala Ser Ile  
130 135 140

Val Phe Ile Ile Trp Thr Thr Met Lys Phe Arg Ile Val Thr Cys Gln  
145 150 155 160

Ser Asp Trp Arg Glu Leu Trp Val Asp Asp Ala Ile Trp Arg Leu Leu  
165 170 175

Phe Ser Met Ile Leu Phe Val Ile Met Val Leu Trp Arg Pro Ser Ala  
180 185 190

Asn Asn Gln Arg Phe Ala Phe Ser Pro Leu Ser Glu Glu Glu Glu  
195 200 205

Asp Glu Gln Lys Glu Pro Met Leu Lys Glu Ser Phe Glu Gly Met Lys  
210 215 220

Met Arg Ser Thr Lys Gln Glu Pro Asn Gly Asn Ser Lys Val Asn Lys  
225 230 235 240

Ala Gln Glu Asp Asp Leu Lys Trp Val Glu Glu Asn Val Pro Ser Ser  
245 250 255

Val Thr Asp Val Ala Leu Pro Ala Leu Leu Asp Ser Asp Glu Glu Arg  
260 265 270

Met Ile Thr His Phe Glu Arg Ser Lys Met Glu  
275 280

<210> 905

<211> 13

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 905

Tyr Glu Pro Met Asp Phe Xaa Met Ala Leu Ile Tyr Asp  
1 5 10

<210> 906

<211> 16

<212> PRT

<213> Homo sapiens

<400> 906

Ile Arg His Glu Leu Thr Val Leu Arg Asp Thr Arg Pro Ala Cys Ala  
1 5 10 15

<210> 907  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 907  
 Met Asp Phe Xaa Met Ala Leu Ile Tyr Asp  
       1                  5                  10

<210> 908  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 908  
 Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala Leu Ser Asn Leu Glu  
       1                  5                  10                  15

Ser Ile Pro Gly Gly Tyr Asn Ala  
                   20

<210> 909  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 909  
 Leu Arg Arg Met Tyr Thr Asp Ile Gln Glu Pro Met Leu Ser Ala Ala  
       1                  5                  10                  15

Gln Glu Gln Phe Gly Gly Asn Pro Phe  
                   20                  25

<210> 910  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 910  
 Ala Ser Leu Val Ser Asn Thr Ser Ser Gly Glu Gly Ser Gln Pro Ser  
       1                  5                  10                  15

Arg Thr Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala Pro Gln Thr  
                   20                  25                  30

<210> 911  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 911  
 Ser Gln Ser Ser Ser Ala Ser Ser Gly Thr Ala Ser Thr Val Gly Gly  
 1 5 10 15  
 Thr Thr Gly Ser Thr Ala Ser Gly Thr Ser Gly Gln Ser Thr Thr Ala  
 20 25 30  
 Pro Asn Leu Val Pro Gly Val Gly Ala Ser Met Phe Asn Thr Pro Gly  
 35 40 45  
 Met Gln Ser Leu Leu Gln Gln Ile Thr Glu Asn Pro Gln Leu Met Gln  
 50 55 60  
 Asn Met Leu Ser Ala Pro Tyr  
 65 70

<210> 912  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 912  
 Met Arg Ser Met Met Gln Ser Leu Ser Gln Asn Pro Asp Leu Ala Ala  
 1 5 10 15  
 Gln Met Met Leu Asn Asn Pro Leu Phe Ala Gly Asn Pro Gln Leu Gln  
 20 25 30  
 Glu Gln Met Arg Gln Gln Leu Pro Thr Phe Leu Gln Gln  
 35 40 45

<210> 913  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 913  
 Met Gln Asn Pro Asp Thr Leu Ser Ala Met Ser Asn Pro Arg Ala Met  
 1 5 10 15  
 Gln Ala Leu Leu Gln Ile Gln Gln Gly Leu Gln Thr Leu Ala Thr Glu  
 20 25 30  
 Ala Pro Gly Leu Ile Pro Gly Phe Thr Pro Gly Leu Gly Ala Leu Gly  
 35 40 45  
 Ser Thr Gly Gly Ser Ser Gly Thr Asn Gly Ser Asn Ala Thr Pro Ser  
 50 55 60  
 Glu Asn Thr Ser Pro Thr Ala Gly Thr

65

70

&lt;210&gt; 914

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 914

Thr Glu Pro Gly His Gln Gln Phe Ile Gln Gln Met Leu Gln Ala Leu  
 1 5 10 15

Ala Gly Val Asn Pro Gln Leu Gln Asn Pro Glu Val Arg Phe Gln Gln  
 20 25 30

Gln Leu Glu Gln Leu Ser Ala Met Gly Phe Leu Asn Arg Glu Ala Asn  
 35 40 45

Leu Gln Ala Leu Ile Ala Thr Gly Gly Asp Ile Asn Ala Ala Ile Glu  
 50 55 60

Arg Leu Leu Gly Ser Gln Pro Ser  
 65 70

&lt;210&gt; 915

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 915

Arg Asn Pro Ala Met Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala  
 1 5 10 15

Leu Ser Asn Leu Glu Ser Ile Pro Gly Gly Tyr Asn Ala Leu Arg Arg  
 20 25 30

Met Tyr Thr Asp Ile Gln Glu Pro Met Leu Ser Ala Ala  
 35 40 45

&lt;210&gt; 916

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 916

Gly Asn Pro Phe Ala Ser Leu Val Ser Asn Thr Ser Ser  
 1 5 10

&lt;210&gt; 917

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 917

Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala

65

70

&lt;210&gt; 914

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 914

Thr Glu Pro Gly His Gln Gln Phe Ile Gln Gln Met Leu Gln Ala Leu  
 1 5 10 15

Ala Gly Val Asn Pro Gln Leu Gln Asn Pro Glu Val Arg Phe Gln Gln  
 20 25 30

Gln Leu Glu Gln Leu Ser Ala Met Gly Phe Leu Asn Arg Glu Ala Asn  
 35 40 45

Leu Gln Ala Leu Ile Ala Thr Gly Gly Asp Ile Asn Ala Ala Ile Glu  
 50 55 60

Arg Leu Leu Gly Ser Gln Pro Ser  
 65 70

&lt;210&gt; 915

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 915

Arg Asn Pro Ala Met Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala  
 1 5 10 15

Leu Ser Asn Leu Glu Ser Ile Pro Gly Gly Tyr Asn Ala Leu Arg Arg  
 20 25 30

Met Tyr Thr Asp Ile Gln Glu Pro Met Leu Ser Ala Ala  
 35 40 45

&lt;210&gt; 916

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 916

Gly Asn Pro Phe Ala Ser Leu Val Ser Asn Thr Ser Ser  
 1 5 10

&lt;210&gt; 917

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 917

Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala



1                      5                      10

<210> 918  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 918  
 Gly Lys Ile Leu Lys Asp Gln Asp Thr Leu Ser Gln His Gly Ile His  
           1                      5                      10                      15

Asp

<210> 919  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 919  
 Gly Leu Thr Val His Leu Val Ile Lys Thr Gln Asn Arg Pro  
           1                      5                      10

<210> 920  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 920  
 Ser Glu Leu Gln Ser Gln Met Gln Arg Gln Leu Leu Ser Asn Pro Glu  
           1                      5                      10                      15

Met Met

<210> 921  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 921  
 Pro Glu Ile Ser His Met Leu Asn Asn Pro Asp Ile Met Arg  
           1                      5                      10

<210> 922  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 922  
 Arg Gln Leu Ile Met Ala Asn Pro Gln Met Gln Gln Leu Ile Gln Arg  
           1                      5                      10                      15

Asn Pro

<210> 923

<211> 27

<212> PRT

<213> Homo sapiens

<400> 923

Asn Leu Cys His Val Asp Cys Gln Asp Leu Leu Asn Pro Asn Leu Leu  
1 5 10 15

Ala Gly Ile His Cys Ala Lys Arg Ile Val Ser  
20 25

<210> 924

<211> 23

<212> PRT

<213> Homo sapiens

<400> 924

Leu Asp Gly Phe Glu Gly Tyr Ser Leu Ser Asp Trp Leu Cys Leu Ala  
1 5 10 15

Phe Val Glu Ser Lys Phe Asn  
20

<210> 925

<211> 22

<212> PRT

<213> Homo sapiens

<400> 925

Asn Glu Asn Ala Asp Gly Ser Phe Asp Tyr Gly Leu Phe Gln Ile Asn  
1 5 10 15

Ser His Tyr Trp Cys Asn  
20

<210> 926

<211> 27

<212> PRT

<213> Homo sapiens

<400> 926

Asn Leu Cys His Val Asp Cys Gln Asp Leu Leu Asn Pro Asn Leu Leu  
1 5 10 15

Ala Gly Ile His Cys Ala Lys Arg Ile Val Ser  
20 25

<210> 927

<211> 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 927

Glu Pro Ser Ala Leu Ser Cys Thr Ser Ser Pro Pro Arg  
 1 5 10

&lt;210&gt; 928

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 928

Ile Arg Glu Val Asn Glu Val Ile Gln Asn Pro Ala Thr  
 1 5 10

&lt;210&gt; 929

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 929

Ile Thr Arg Ile Leu Leu Ser His Phe Asn Trp Asp Lys Glu Lys Leu  
 1 5 10 15

Met Glu Arg Tyr Phe Asp Gly Asn Leu Glu Lys Leu Phe Ala  
 20 25 30

&lt;210&gt; 930

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 930

Asn Thr Arg Ser Ser Ala Gln Asp Met Pro Cys Gln Ile Cys Tyr Leu  
 1 5 10 15

Asn Tyr Pro Asn Ser Tyr Phe  
 20

&lt;210&gt; 931

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 931

Cys Asp Ile Leu Val Asp Asp Asn Thr Val Met Arg Leu Ile Thr Asp  
 1 5 10 15

Ser Lys Val Lys Leu Lys Tyr Gln His Leu Ile Thr Asn Ser Phe Val  
 20 25 30

Glu Cys Asn Arg Leu Leu Lys Trp Cys Pro Ala Pro Asp Cys His His  
 35 40 45

Val Val Lys Val Gln Tyr Pro Asp Ala Lys Pro Val  
50 55 60

<210> 932  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 932  
Cys Asp Ile Leu Val Asp Asp Asn Thr Val Met Arg Leu Ile Thr Asp  
1 5 10 15

Ser Lys Val Lys Leu Lys Tyr Gln His Leu Ile Thr Asn Ser Phe Val  
20 25 30

Glu Cys Asn Arg Leu Leu Lys Trp Cys Pro Ala Pro Asp Cys His His  
35 40 45

Val Val Lys Val  
50

<210> 933  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 933  
Gly Cys Asn His Met Val Cys Arg Asn Gln Asn Cys Lys Ala Glu Phe  
1 5 10 15

Cys Trp Val Cys Leu Gly Pro Trp Glu Pro His Gly Ser Ala Trp Tyr  
20 25 30

Asn Cys Asn Arg Tyr Asn Glu Asp Asp Ala Lys Ala Ala Arg Asp Ala  
35 40 45

Gln Glu Arg Ser Arg Ala Ala Leu Gln Arg Tyr Leu  
50 55 60

<210> 934  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 934  
Phe Tyr Cys Asn Arg Tyr Met Asn His Met Gln Ser Leu Arg Phe Glu  
1 5 10 15

His Lys Leu Tyr Ala Gln Val Lys Gln Lys Met Glu Glu Met Gln Gln  
20 25 30

His Asn Met Ser Trp Ile Glu Val Gln Phe Leu Lys Lys Ala Val Asp  
35 40 45

Val Leu Cys Gln Cys Arg Ala Thr Leu Met Tyr Thr  
 50 55 60

<210> 935  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 935  
 Tyr Val Phe Ala Phe Tyr Leu Lys Lys Asn Asn Gln Ser Ile Ile Phe  
 1 5 10 15

Glu Asn Asn Gln Ala Asp Leu Glu Asn Ala Thr Glu Val Leu Ser Gly  
 20 25 30

Tyr Leu Glu Arg Asp Ile Ser Gln Asp Ser Leu Gln Asp Ile Lys Gln  
 35 40 45

Lys Val Gln Asp Lys Tyr Arg Tyr Cys Glu Ser Arg  
 50 55 60

<210> 936  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 936  
 Thr Gly Leu Glu Cys Gly His Lys Phe Cys Met Gln Cys Trp Ser Glu  
 1 5 10 15

Tyr Leu Thr Thr Lys Ile Met Glu Glu Gly Met Gly Gln Thr Ile Ser  
 20 25 30

Cys Pro Ala His Gly  
 35

<210> 937  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 937  
 Met Trp Gly Tyr Leu Phe Val Asp Ala Ala Trp Asn Phe Leu Gly Cys  
 1 5 10 15

Leu Ile Cys Gly Trp  
 20

<210> 938  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 938

Met His Phe Ile Ser Ser Gly Asn Val Ser Ala Ile Arg Ser Ser Ile  
1 5 10 15

Leu Leu Leu Arg Xaa Ser Leu Ser Tyr Leu Gly Asn Cys Leu Arg Val  
20 25 30

Ser Ala Ile Phe Val Tyr Phe Leu Leu Phe Leu Leu Leu Ser  
35 40 45

<210> 939

<211> 80

<212> PRT

<213> Homo sapiens

<400> 939

Met Asp Gln Ala Leu Arg Gly Ser Pro Ser Glu Gly Phe Ser Thr Asp  
1 5 10 15

Pro Ser Pro Pro Gln Val Gly Arg Gln Ile Pro Ser Phe Pro Pro Trp  
20 25 30

Arg Arg Leu Val Leu Pro Lys Ala Ser Gly Cys Phe Leu Glu Arg Glu  
35 40 45

Trp Trp Leu Cys Val Phe Lys Leu Arg Thr Arg Pro Gly Ala Glu Ala  
50 55 60

His Ala Tyr Asn Ser Ser Ile Leu Gly Gly Arg Gly Lys Gly Ile Thr  
65 70 75 80

<210> 940

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 940

Met Leu Pro Ala Leu Ala Ser Cys Cys His Phe Ser Pro Pro Glu Gln  
1 5 10 15

Ala Ala Arg Leu Lys Lys Leu Gln Glu Gln Glu Lys Gln Gln Lys Val  
20 25 30

Glu Phe Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp

35

40

45

Ser Gly Gln Ile Lys Lys Lys Phe Gln Pro Met Asn Lys Ile Glu Arg  
50 55 60

Ser Ile Leu His Asp Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser  
65 70 75 80

Phe Gly Glu Asp Asp Asp Cys Arg Tyr Val Met Ile Phe Lys Lys Glu  
85 90 95

Phe Ala Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu  
100 105 110

Trp Asp Pro Gln Lys Ala Glu Glu Lys Arg Asn Xaa Lys Glu Leu Ala  
115 120 125

Gln Arg Gln  
130

<210> 941

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 941

Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala Ser  
1 5 10 15

Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala Lys  
20 25 30

Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Xaa Pro  
35 40 45

Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn Glu  
50 55 60

Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu  
65 70 75

<210> 942

<211> 40

<212> PRT

<213> Homo sapiens

<400> 942

Pro Pro Arg Arg Pro Ala Gln Leu Pro Leu Thr Pro Gly Ala Gly Gln  
1 5 10 15

Gly Ala Gly Arg Asp Lys Ala Ala Ala Ile Arg Ala His Pro Gly Ala

20

25

30

Pro Pro Leu Asn His Leu Leu Pro  
35 40

<210> 943  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 943  
Ala Val Pro Gln Ala Gly Gly Lys Gln Val Phe Asp Leu Ser Pro Leu  
1 5 10 15

Glu Leu Gly Tyr Val Arg Gly Met Cys Val Cys Val  
20 25

<210> 944  
<211> 207  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (178)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 944  
Met Leu Pro Ala Leu Ala Ser Cys Cys His Phe Ser Pro Pro Glu Gln  
1 5 10 15

Ala Ala Arg Leu Lys Lys Leu Gln Glu Gln Glu Lys Gln Gln Lys Val  
20 25 30

Glu Phe Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp  
35 40 45

Ser Gly Gln Ile Lys Lys Lys Phe Gln Pro Met Asn Lys Ile Glu Arg  
50 55 60

Ser Ile Leu His Asp Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser  
65 70 75 80

Phe Gly Glu Asp Asp Asp Cys Arg Tyr Val Met Ile Phe Lys Lys Glu  
85 90 95

Phe Ala Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu  
100 105 110

Trp Asp Pro Gln Lys Ala Glu Glu Lys Arg Asn Xaa Lys Glu Leu Ala  
115 120 125



Gln Arg Gln Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser  
130 135 140

Pro Ala Ser Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly  
145 150 155 160

Ala Ala Lys Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly  
165 170 175

Cys Xaa Pro Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala  
180 185 190

Met Asn Glu Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu  
195 200 205

<210> 945

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 945

Leu Leu Cys Pro Val Leu Asn Ser Gly Xaa Ser Trp Asn Phe Pro His  
1 5 10 15

Pro Ser Gln Pro Glu Tyr Ser Phe His Gly Phe His Ser Thr Arg Leu  
20 25 30

Trp Ile

<210> 946

<211> 28

<212> PRT

<213> Homo sapiens

<400> 946

Pro Ser Thr Pro Trp Phe Leu Phe Leu Leu Gly Leu Thr Cys Pro Phe  
1 5 10 15

Ser Thr Ser His Pro Arg Trp Asp Ser Ile Pro Pro  
20 25

<210> 947

<211> 227

<212> PRT

<213> Homo sapiens

<400> 947

Glu Leu Ser Ile Ser Ile Ser Asn Val Ala Leu Ala Asp Glu Gly Glu

|   |     |     |     |
|---|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Tyr Thr Cys Ser Ile Phe Thr Met Pro Val Arg Thr Ala Lys Ser Leu | 20  | 25  | 30  |
| Val Thr Val Leu Gly Ile Pro Gln Lys Pro Ile Ile Thr Gly Tyr Lys | 35  | 40  | 45  |
| Ser Ser Leu Arg Glu Lys Asp Thr Ala Thr Leu Asn Cys Gln Ser Ser | 50  | 55  | 60  |
| Gly Ser Lys Pro Ala Ala Arg Leu Thr Trp Arg Lys Gly Asp Gln Glu | 65  | 70  | 75  |
| Leu His Gly Glu Pro Thr Arg Ile Gln Glu Asp Pro Asn Gly Lys Thr | 85  | 90  | 95  |
| Phe Thr Val Ser Ser Ser Val Thr Phe Gln Val Thr Arg Glu Asp Asp | 100 | 105 | 110 |
| Gly Ala Ser Ile Val Cys Ser Val Asn His Glu Ser Leu Lys Gly Ala | 115 | 120 | 125 |
| Asp Arg Ser Thr Ser Gln Arg Ile Glu Val Leu Tyr Thr Pro Thr Ala | 130 | 135 | 140 |
| Met Ile Arg Pro Asp Pro Pro His Pro Arg Glu Gly Gln Lys Leu Leu | 145 | 150 | 155 |
| Leu His Cys Glu Gly Arg Gly Asn Pro Val Pro Gln Gln Tyr Leu Trp | 165 | 170 | 175 |
| Glu Lys Glu Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser Ala | 180 | 185 | 190 |
| Leu Ile Phe Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly Cys | 195 | 200 | 205 |
| Thr Ala Thr Ser Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu Asn | 210 | 215 | 220 |
| Val Asn Asp   | 225 |     |     |

&lt;210&gt; 948

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 948

|   |   |   |    |    |
|---|---|---|----|----|
| Glu Leu Ser Ile Ser Ile Ser Asn Val Ala Leu Ala Asp Glu Gly Glu | 1 | 5 | 10 | 15 |
|---|---|---|----|----|

|   |    |    |    |
|---|----|----|----|
| Tyr Thr Cys Ser Ile Phe Thr Met Pro Val Arg Thr Ala Lys Ser Leu | 20 | 25 | 30 |
|---|----|----|----|

Val Thr Val Leu Gly Ile Pro Gln Lys Pro Ile Ile Thr Gly Tyr Lys

35

40

45

Ser Ser Leu Arg Glu Lys Asp Thr Ala Thr Leu Asn Cys Gln Ser Ser  
 50 55 60

&lt;210&gt; 949

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 949

Cys Gln Ser Ser Gly Ser Lys Pro Ala Ala Arg Leu Thr Trp Arg Lys  
 1 5 10 15

Gly Asp Gln Glu Leu His Gly Glu Pro Thr Arg Ile Gln Glu Asp Pro  
 20 25 30

Asn Gly Lys Thr Phe Thr Val Ser Ser Ser Val Thr Phe Gln Val Thr  
 35 40 45

Arg Glu Asp Asp Gly Ala Ser Ile Val Cys Ser Val Asn His Glu Ser  
 50 55 60

Leu  
 65

&lt;210&gt; 950

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 950

His Glu Ser Leu Lys Gly Ala Asp Arg Ser Thr Ser Gln Arg Ile Glu  
 1 5 10 15

Val Leu Tyr Thr Pro Thr Ala Met Ile Arg Pro Asp Pro Pro His Pro  
 20 25 30

Arg Glu Gly Gln Lys Leu Leu Leu His Cys Glu Gly Arg Gly Asn Pro  
 35 40 45

Val Pro Gln Gln Tyr Leu Trp Glu Lys Glu  
 50 55

&lt;210&gt; 951

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 951

Trp Glu Lys Glu Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser  
 1 5 10 15

Ala Leu Ile Phe Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly  
                   20                  25                  30

Cys Thr Ala Thr Ser Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu  
           35                  40                  45

Asn Val Asn Asp  
       50

<210> 952  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 952  
 Pro Ser Pro Val Pro Ser Ser Ser Ser Thr Tyr His Ala Ile Ile Gly  
       1                  5                  10                  15

Gly Ile Val Ala Phe Ile Val Phe Leu Leu Leu Ile Met Leu Ile Phe  
                   20                  25                  30

Leu Gly His Tyr  
       35

<210> 953  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 953  
 Leu Ile Arg His Lys Gly Thr Tyr Leu Thr His Glu Ala Lys Gly Ser  
       1                  5                  10                  15

Asp Asp Ala Pro Asp Ala Asp Thr Ala Ile Ile Asn Ala Glu Gly Gly  
           20                  25                  30

Gln Ser Gly Gly Asp Asp Lys Lys Glu Tyr Phe Ile  
           35                  40

<210> 954  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 954  
 Val Pro Glu Leu Pro Asp Arg Val His Gln Leu His Gln Ala Val Gln  
       1                  5                  10                  15

Gly Cys Ala Leu Gly Arg Pro Gly Phe Pro Gly Gly Pro Thr His Ser  
           20                  25                  30

Gly His His Lys Ser His Pro Gly Pro Ala Gly Gly Asp Tyr Asn Arg  
           35                  40                  45

Cys Asp Arg Pro Gly Gln Val His Leu His Asn Pro Arg Gly Thr Gly  
50 55 60

Arg Arg Gly Gln Leu His Pro Thr Ala Gly Pro Gly Val His Arg Arg  
65 70 75 80

Ala Cys Pro Ser Gln Gln Leu Pro His Arg Leu Gly Pro Gly Val Pro  
85 90 95

Cys Pro Ser Pro Ser Leu Thr Pro Val Leu Pro Ser Trp Thr Gln Ser  
100 105 110

Trp Cys Gly Leu Pro Gly Tyr Thr Ser Ser Ser  
115 120

<210> 955

<211> 22

<212> PRT

<213> Homo sapiens

<400> 955

Val His Gln Leu His Gln Ala Val Gln Gly Cys Ala Leu Gly Arg Pro  
1 5 10 15

Gly Phe Pro Gly Gly Pro  
20

<210> 956

<211> 42

<212> PRT

<213> Homo sapiens

<400> 956

Pro Thr His Ser Gly His His Lys Ser His Pro Gly Pro Ala Gly Gly  
1 5 10 15

Asp Tyr Asn Arg Cys Asp Arg Pro Gly Gln Val His Leu His Asn Pro  
20 25 30

Arg Gly Thr Gly Arg Arg Gly Gln Leu His  
35 40

<210> 957

<211> 55

<212> PRT

<213> Homo sapiens

<400> 957

Leu His Pro Thr Ala Gly Pro Gly Val His Arg Arg Ala Cys Pro Ser  
1 5 10 15

Gln Gln Leu Pro His Arg Leu Gly Pro Gly Val Pro Cys Pro Ser Pro  
20 25 30

Ser Leu Thr Pro Val Leu Pro Ser Trp Thr Gln Ser Trp Cys Gly Leu

35

40

45

Pro Gly Tyr Thr Ser Ser Ser  
50 55

&lt;210&gt; 958

&lt;211&gt; 276

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 958

Ser Leu Arg Arg Pro Arg Ser Ala Ala Xaa Gln Thr Leu Thr Thr Phe  
1 5 10 15

Leu Ser Ser Val Ser Ser Ala Ser Ser Ser Ala Leu Pro Gly Ser Arg  
20 25 30

Glu Pro Cys Asp Pro Arg Ala Pro Pro Pro Arg Ser Gly Ser Ala  
35 40 45

Ala Ser Cys Cys Ser Cys Cys Cys Ser Cys Pro Arg Arg Arg Ala Pro  
50 55 60

Leu Arg Ser Pro Arg Gly Ser Lys Arg Arg Ile Arg Gln Arg Glu Val  
65 70 75 80

Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro  
85 90 95

Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly  
100 105 110

Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg  
115 120 125

Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp  
130 135 140

Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr  
145 150 155 160

Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly  
165 170 175

Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe  
180 185 190

Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile  
195 200 205

Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile  
210 215 220

His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly  
225 230 235 240

Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys  
245 250 255

Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu  
260 265 270

Glu Leu Pro Lys  
275

<210> 959

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 959

Ser Leu Arg Arg Pro Arg Ser Ala Ala Xaa Gln Thr Leu Thr Thr Phe  
1 5 10 15

Leu Ser Ser Val Ser Ser Ala Ser Ser Ser Ala Leu Pro Gly Ser Arg  
20 25 30

Glu Pro Cys Asp Pro Arg Ala Pro Pro Pro Pro Arg Ser Gly Ser Ala  
35 40 45

Ala Ser Cys Cys Ser Cys Cys Cys Ser Cys Pro Arg Arg  
50 55 60

<210> 960

<211> 52

<212> PRT

<213> Homo sapiens

<400> 960

Arg Ala Pro Leu Arg Ser Pro Arg Gly Ser Lys Arg Arg Ile Arg Gln  
1 5 10 15

Arg Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala  
20 25 30

Gly Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly  
35 40 45

Thr Pro Gly Ile  
50

<210> 961

<211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 961

Thr Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu  
 1 5 10 15

Cys Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln  
 20 25 30

Cys Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala  
 35 40 45

Glu Cys Thr Phe  
 50

<210> 962  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 962

Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly  
 1 5 10 15

Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe  
 20 25 30

Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile  
 35 40 45

Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile  
 50 55 60

His Arg  
 65

<210> 963  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 963

Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu  
 1 5 10 15

Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly  
 20 25 30

Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu  
 35 40 45

Leu Pro Lys  
 50



<210> 964  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 964  
 Thr Lys Lys Glu Asn Cys Arg Pro Ala Ser Leu Met Asn Ile Asp Thr  
     1                    5                    10                    15

Lys Ile Leu Asn Lys Ile Leu Met Asn Gln  
                     20                    25

<210> 965  
 <211> 214  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 965  
 Met Cys Asn Leu Pro Ile Lys Val Val Cys Arg Ala Asn Ala Glu Tyr  
     1                    5                    10                    15

Met Ser Pro Ser Gly Lys Val Pro Xaa Xaa His Val Gly Asn Gln Val  
                     20                    25                    30

Val Ser Glu Leu Gly Pro Ile Val Gln Phe Val Lys Ala Lys Gly His  
                     35                    40                    45

Ser Leu Ser Asp Gly Leu Glu Glu Val Gln Lys Ala Glu Met Lys Ala  
50 55 60

Tyr Met Glu Leu Val Asn Asn Met Leu Leu Thr Ala Glu Leu Tyr Leu  
65 70 75 80

Gln Trp Cys Asp Glu Ala Thr Val Gly Xaa Ile Thr His Xaa Arg Tyr  
85 90 95

Gly Ser Pro Tyr Pro Trp Pro Leu Xaa His Ile Leu Ala Tyr Gln Lys  
100 105 110

Gln Trp Glu Val Lys Arg Lys Xaa Lys Ala Ile Gly Trp Gly Lys Lys  
115 120 125

Thr Leu Asp Gln Val Leu Glu Asp Val Asp Gln Cys Cys Gln Ala Leu  
130 135 140

Ser Gln Arg Leu Gly Thr Gln Pro Tyr Phe Phe Asn Lys Gln Pro Thr  
145 150 155 160

Glu Leu Asp Ala Leu Val Phe Gly His Leu Tyr Thr Ile Leu Thr Thr  
165 170 175

Gln Leu Thr Asn Asp Glu Leu Ser Glu Lys Val Lys Asn Tyr Ser Asn  
180 185 190

Leu Leu Ala Phe Cys Arg Arg Ile Glu Gln His Tyr Phe Glu Asp Arg  
195 200 205

Gly Lys Gly Arg Leu Ser  
210

<210> 966

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 966

Met Cys Asn Leu Pro Ile Lys Val Val Cys Arg Ala Asn Ala Glu Tyr  
1 5 10 15

Met Ser Pro Ser Gly Lys Val Pro Xaa Xaa His Val Gly Asn Gln Val  
20 25 30

Val Ser Glu Leu Gly Pro Ile Val Gln Phe Val Lys

35

40

&lt;210&gt; 967

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 967

Phe Val Lys Ala Lys Gly His Ser Leu Ser Asp Gly Leu Glu Glu Val  
 1 5 10 15

Gln Lys Ala Glu Met Lys Ala Tyr Met Glu Leu Val Asn Asn Met Leu  
 20 25 30

Leu Thr Ala Glu Leu Tyr Leu Gln Trp Cys Asp Glu  
 35 40

&lt;210&gt; 968

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 968

Leu Gln Trp Cys Asp Glu Ala Thr Val Gly Xaa Ile Thr His Xaa Arg  
 1 5 10 15

Tyr Gly Ser Pro Tyr Pro Trp Pro Leu Xaa His Ile Leu Ala Tyr Gln  
 20 25 30

Lys Gln Trp Glu Val Lys Arg Lys Xaa Lys Ala Ile Gly Trp Gly Lys  
 35 40 45

Lys Thr Leu  
 50

<210> 969  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 969  
 Asp Gln Val Leu Glu Asp Val Asp Gln Cys Cys Gln Ala Leu Ser Gln  
           1                  5                  10                  15  
 Arg Leu Gly Thr Gln Pro Tyr Phe Phe Asn Lys Gln Pro Thr Glu Leu  
                   20                  25                  30  
 Asp Ala Leu Val Phe Gly His Leu Tyr Thr Ile  
                   35                  40

<210> 970  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 970  
 Leu Thr Thr Gln Leu Thr Asn Asp Glu Leu Ser Glu Lys Val Lys Asn  
           1                  5                  10                  15  
 Tyr Ser Asn Leu Leu Ala Phe Cys Arg Arg Ile Glu Gln His Tyr Phe  
                   20                  25                  30  
 Glu Asp Arg Gly Lys Gly Arg Leu Ser  
           35                  40

<210> 971  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 971  
 Met Xaa Xaa Xaa Asn Ser His Ile Thr Ile Phe Thr Leu Asn Val Asn  
           1                  5                  10                  15  
 Gly Leu Asn Ala Pro Asn Glu Arg His Arg Leu Ala Asn Trp Ile Gln  
                   20                  25                  30

Ser Gln Asp Gln Val Cys Cys Ile Gln Glu Thr His Leu Thr Gly Arg  
           35                          40                          45

Asp Thr His Arg Leu Lys Ile Lys Gly Trp Arg Lys Ile Tyr Gln Ala  
           50                          55                          60

Asn Gly Lys Gln Lys Lys  
       65                          70

<210> 972  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 972  
 Phe Thr Leu Asn Val Asn Gly Leu Asn Ala Pro Asn Glu Arg His Arg  
       1                          5                          10                          15

Leu Ala Asn Trp Ile Gln Ser Gln Asp Gln Val Cys  
           20                          25

<210> 973  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 973  
 Thr His Leu Thr Gly Arg Asp Thr His Arg Leu Lys Ile Lys Gly Trp  
       1                          5                          10                          15

Arg

<210> 974  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 974  
 Gly Trp Arg Lys Ile Tyr Gln Ala Asn Gly Lys Gln Lys Lys  
       1                          5                          10

<210> 975  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 975

Ile Tyr His Leu His Ser Trp Ile Phe Phe His Phe Lys Arg Ala Phe  
 1 5 10 15

Cys Met Cys Phe Ile Thr Met Lys Val Ile His Ala His Cys Ser Lys  
 20 25 30

Leu Arg Lys Cys Xaa Asn Ala Gln Ile Ser Val Phe Cys Thr Thr Leu  
 35 40 45

Thr Ala Ser Tyr Pro Thr  
 50

<210> 976

<211> 23

<212> PRT

<213> Homo sapiens

<400> 976

Ile Tyr His Leu His Ser Trp Ile Phe Phe His Phe Lys Arg Ala Phe  
 1 5 10 15

Cys Met Cys Phe Ile Thr Met  
 20

<210> 977

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 977

Lys Val Ile His Ala His Cys Ser Lys Leu Arg Lys Cys Xaa Asn Ala  
 1 5 10 15

Gln Ile Ser Val Phe Cys Thr Thr Leu Thr Ala Ser Tyr Pro Thr  
 20 25 30

<210> 978

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 978

Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser Ile Leu  
 1 5 10 15

Pro Gly Leu Val Leu Ala Ser Cys Asp Gly Pro Ser Xaa Ser Gln Ala  
                   20                  25                  30

Pro Ser Pro Trp Leu Thr Pro Asp Pro Ala Ser Val Gln Val Arg Leu  
                   35                  40                  45

Leu Trp Asp Val Leu Thr Pro Asp Pro Asn  
                   50                  55

<210> 979

<211> 54

<212> PRT

<213> Homo sapiens

<400> 979

Gln Arg Gly Ile Tyr Arg Glu Ile Leu Phe Leu Thr Met Ala Ala Leu  
           1                  5                  10                  15

Gly Lys Asp His Val Asp Ile Val Ala Phe Asp Lys Lys Tyr Lys Ser  
                   20                  25                  30

Ala Phe Asn Lys Leu Ala Ser Ser Met Gly Lys Glu Glu Leu Arg His  
                   35                  40                  45

Arg Arg Ala Gln Met Pro  
                   50

<210> 980

<211> 23

<212> PRT

<213> Homo sapiens

<400> 980

Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser Ile Leu  
           1                  5                  10                  15

Pro Gly Leu Val Leu Ala Ser  
                   20

<210> 981

<211> 191

<212> PRT

<213> Homo sapiens

<400> 981

Glu Asp Asp Gly Phe Asn Arg Ser Ile His Glu Val Ile Leu Lys Asn  
           1                  5                  10                  15

Ile Thr Trp Tyr Ser Glu Arg Val Leu Thr Glu Ile Ser Leu Gly Ser  
                   20                  25                  30

Leu Leu Ile Leu Val Val Ile Arg Thr Ile Gln Tyr Asn Met Thr Arg  
                   35                  40                  45

Thr Arg Asp Lys Tyr Leu His Thr Asn Cys Leu Ala Ala Leu Ala Asn

50                      55                      60  
 Met Ser Ala Gln Phe Arg Ser Leu His Gln Tyr Ala Ala Gln Arg Ile  
   65                                      70                                      75                                      80  
 Ile Ser Leu Phe Ser Leu Leu Ser Lys Lys His Asn Lys Val Leu Glu  
                                     85                                      90                                      95  
 Gln Ala Thr Gln Ser Leu Arg Gly Ser Leu Ser Ser Asn Asp Val Pro  
                                     100                                      105                                      110  
 Leu Pro Asp Tyr Ala Gln Asp Leu Asn Val Ile Glu Glu Val Ile Arg  
                                     115                                      120                                      125  
 Met Met Leu Glu Ile Ile Asn Ser Cys Leu Thr Asn Ser Leu His His  
                                     130                                      135                                      140  
 Asn Pro Asn Leu Val Tyr Ala Leu Leu Tyr Lys Arg Asp Leu Phe Glu  
   145                                      150                                      155                                      160  
 Gln Phe Arg Thr His Pro Ser Phe Gln Asp Ile Met Gln Asn Ile Asp  
                                     165                                      170                                      175  
 Leu Val Ile Ser Phe Phe Ser Ser Arg Leu Leu Gln Ala Gly Ser  
                                     180                                      185                                      190  
  
 <210> 982  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 982  
 Glu Asp Asp Gly Phe Asn Arg Ser Ile His Glu Val Ile Leu Lys Asn  
   1                                      5                                      10                                      15  
 Ile Thr Trp Tyr Ser Glu Arg Val Leu Thr Glu Ile Ser Leu Gly Ser  
                                     20                                      25                                      30  
 Leu Leu Ile Leu Val Val  
                                     35  
  
 <210> 983  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 983  
 Arg Thr Ile Gln Tyr Asn Met Thr Arg Thr Arg Asp Lys Tyr Leu His  
   1                                      5                                      10                                      15  
 Thr Asn Cys Leu Ala Ala Leu Ala Asn Met Ser Ala Gln Phe Arg Ser  
                                     20                                      25                                      30  
 Leu His Gln Tyr Ala Ala Gln Arg Ile Ile Ser Leu Phe Ser Leu Leu  
                                     35                                      40                                      45



Ser Lys Lys His Asn  
50

<210> 984  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 984  
Ser Cys Leu Thr Asn Ser Leu His His Asn Pro Asn Leu Val Tyr Ala  
1 5 10 15

Leu Leu Tyr Lys Arg Asp Leu Phe Glu Gln Phe Arg Thr His Pro Ser  
20 25 30

Phe Gln Asp Ile Met Gln Asn Ile Asp Leu Val Ile Ser Phe Phe Ser  
35 40 45

Ser Arg Leu Leu Gln Ala Gly Ser  
50 55

<210> 985  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 985  
Lys Lys His Asn Lys Val Leu Glu Gln Ala Thr Gln Ser Leu Arg Gly  
1 5 10 15

Ser Leu Ser Ser Asn Asp Val Pro Leu Pro Asp Tyr Ala Gln Asp  
20 25 30

<210> 986  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 986  
Thr Ile Ser Asn Ser Ser Phe Ile Ser Gly Tyr Asn Ala Lys Tyr  
1 5 10 15

<210> 987  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 987  
Leu Lys Val Ala Ala Ser Trp Glu Leu Ser Cys Gln Trp Asn Gly Ser  
1 5 10 15

Trp Lys Ser Leu Ser Lys Ala Ser Leu Arg Cys Pro Lys Thr Asp  
20 25 30

<210> 988  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 988

Met Ala Asp Ile Gln Thr Glu Arg Ala Tyr Gln Lys Gln Pro Thr Ile  
 1 5 10 15

Phe Gln Asn Lys Lys Arg Val Leu Leu Gly Glu Thr Gly Lys Glu Lys  
 20 25 30

Leu Pro Arg Val Thr Asn Lys Asn Ile Gly Leu Gly Phe Lys Asp Thr  
 35 40 45

Pro Arg Arg Leu Leu Arg Gly Thr Tyr Ile Asp Lys Lys Cys Pro Phe  
 50 55 60

Thr Gly Asn Val Ser Ile Arg Gly Arg Ile Leu Ser Gly Val Val Thr  
 65 70 75 80

Gln Asp Glu Asp Ala Glu Asp His Cys His Pro Pro Arg Leu Ser Ala  
 85 90 95

Leu His Pro Gln Val Gln Pro Leu Arg Glu Ala Pro Gln Glu His Val  
 100 105 110

Cys Thr Pro Val Pro Leu Leu Gln Gly Arg Pro Asp Arg  
 115 120 125

<210> 989  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 989

Met Lys Met Gln Arg Thr Ile Val Ile Arg Arg Asp Tyr Leu His Tyr  
 1 5 10 15

Ile Arg Lys Tyr Asn Arg Phe Glu Lys Arg His Lys Asn Met Ser Val  
 20 25 30

His Leu Ser Pro Cys Phe Arg Asp Val Gln Ile Gly Asp Ile Val Thr  
 35 40 45

Val Gly Glu Cys Arg Pro Leu Ser Lys Thr Val Arg Phe Asn Val Leu  
 50 55 60

Lys Val Thr Lys Ala Ala Gly Thr Lys Lys Gln Phe Gln Lys Phe  
 65 70 75

<210> 990  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 990

Met Ala Asp Ile Gln Thr Glu Arg Ala Tyr Gln Lys Gln Pro Thr Ile  
 1 5 10 15

Phe Gln Asn Lys Lys Arg Val Leu Leu Gly Glu Thr Gly Lys  
 20 25 30

&lt;210&gt; 991

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 991

Lys Leu Pro Arg Val Thr Asn Lys Asn Ile Gly Leu Gly Phe Lys Asp  
 1 5 10 15

Thr Pro Arg Arg Leu Leu Arg Gly Thr Tyr Ile Asp Lys Lys Cys Pro  
 20 25 30

Phe Thr Gly Asn Val Ser Ile Arg Gly Arg Ile Leu Ser Gly Val Val  
 35 40 45

Thr Gln Asp Glu Asp Ala Glu Asp His Cys  
 50 55

&lt;210&gt; 992

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 992

His Cys His Pro Pro Arg Leu Ser Ala Leu His Pro Gln Val Gln Pro  
 1 5 10 15

Leu Arg Glu Ala Pro Gln Glu His Val Cys Thr Pro Val Pro Leu Leu  
 20 25 30

Gln Gly Arg Pro Asp Arg  
 35

&lt;210&gt; 993

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 993

Met Lys Met Gln Arg Thr Ile Val Ile Arg Arg Asp Tyr Leu His Tyr  
 1 5 10 15

Ile Arg Lys Tyr Asn Arg Phe Glu Lys Arg His Lys Asn Met Ser Val  
 20 25 30

His Leu Ser Pro  
 35

&lt;210&gt; 994

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 994

Cys Phe Arg Asp Val Gln Ile Gly Asp Ile Val Thr Val Gly Glu Cys  
 1 5 10 15

Arg Pro Leu Ser Lys Thr Val Arg Phe Asn Val Leu Lys Val Thr Lys  
 20 25 30

Ala Ala Gly Thr Lys Lys Gln Phe Gln Lys Phe  
 35 40

&lt;210&gt; 995

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 995

Pro Arg Arg Leu Leu Arg Gly Thr Tyr Ile Asp Lys Lys Cys Pro Phe  
 1 5 10 15

Thr Gly Asn Val Ser Ile Arg Gly Arg Ile Leu Ser Gly Val Val Thr  
 20 25 30

Gln

&lt;210&gt; 996

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 996

Ser Arg Gly Thr Gly Val Gln Thr Cys Ser Cys Gly Ala Ser Arg Ser  
 1 5 10 15

Gly Cys Thr Cys Gly Cys Ser Ala Asp Ser Leu Gly Gly  
 20 25

&lt;210&gt; 997

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 997

Gln Trp Ser Ser Ala Ser Ser Ser Trp Val Thr Thr Pro Glu Arg Ile  
 1 5 10 15

Arg Pro Arg Met Asp Thr Leu Pro Val Lys Gly His Phe Leu Ser Met  
 20 25 30

<210> 998  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 998  
 Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met  
   1                  5                  10                  15  
 Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg  
           20                  25                  30  
 Leu Ile Cys Lys Gly Thr Ile Glu Glu Arg Ile Leu Gln Arg Ala Lys  
           35                  40                  45  
 Glu Lys Ser Glu Ile Gln Arg Met Val Ile Ser Gly  
       50                  55                  60

<210> 999  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 999  
 Thr Arg Met Ile Asp Leu Leu Glu Glu Tyr Met Val Tyr Arg Lys His  
   1                  5                  10                  15  
 Thr Tyr Xaa Arg Leu Asp Gly Ser Ser Lys Ile Ser Glu Arg Arg Asp  
           20                  25                  30  
 Met Val Ala Asp Phe Gln Asn Arg Asn Asp Ile Phe Val Phe Leu Leu  
           35                  40                  45  
 Ser Thr Arg Ala Gly Gly Leu Gly Ile Asn Leu Thr Ala Xaa Asp Thr  
       50                  55                  60  
 Val His Phe  
   65

<210> 1000  
 <211> 32

<212> PRT

<213> Homo sapiens

<400> 1000

Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met  
1 5 10 15

Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg  
20 25 30

<210> 1001

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1001

Val Tyr Arg Leu Ile Cys Lys Gly Thr Ile Glu Glu Arg Ile Leu Gln  
1 5 10 15

Arg Ala Lys Glu Lys Ser Glu Ile Gln Arg Met Val Ile Ser Gly  
20 25 30

<210> 1002

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1002

Thr Arg Met Ile Asp Leu Leu Glu Glu Tyr Met Val Tyr Arg Lys His  
1 5 10 15

Thr Tyr Xaa Arg Leu Asp Gly Ser Ser Lys Ile Ser Glu Arg Arg Asp  
20 25 30

Met

<210> 1003

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1003

Arg Arg Asp Met Val Ala Asp Phe Gln Asn Arg Asn Asp Ile Phe Val  
 1 5 10 15

Phe Leu Leu Ser Thr Arg Ala Gly Gly Leu Gly Ile Asn Leu Thr Ala  
 20 25 30

Xaa Asp Thr Val His Phe  
 35

&lt;210&gt; 1004

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1004

Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met  
 1 5 10 15

Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg  
 20 25 30

Leu Ile Cys Lys Gly  
 35

&lt;210&gt; 1005

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1005

Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met  
 1 5 10 15

Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg  
 20 25 30

Leu Ile Cys Lys Gly  
 35

&lt;210&gt; 1006

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1006

Arg Leu Ile Cys Lys Gly Thr Ile Glu Glu Arg Ile Leu Gln Arg Ala  
 1 5 10 15

Lys Glu Lys Ser Glu Ile Gln Arg Met Val Ile Ser Gly  
 20 25

&lt;210&gt; 1007

&lt;211&gt; 69

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1007  
Gly Thr Arg Met Ile Asp Leu Leu Glu Glu Tyr Met Val Tyr Arg Lys  
1 5 10 15  
His Thr Tyr Xaa Arg Leu Asp Gly Ser Ser Lys Ile Ser Glu Arg Arg  
20 25 30  
Asp Met Val Ala Asp Phe Gln Asn Arg Asn Asp Ile Phe Val Phe Leu  
35 40 45  
Leu Ser Thr Arg Ala Gly Gly Leu Gly Ile Asn Leu Thr Ala Xaa Asp  
50 55 60  
Thr Val His Phe Leu  
65

<210> 1008  
<211> 364  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (259)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (312)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1008  
Met Ser Leu His Gly Lys Arg Lys Glu Ile Tyr Lys Tyr Glu Ala Pro  
1 5 10 15  
Trp Thr Val Tyr Ala Met Asn Trp Ser Val Arg Pro Asp Lys Arg Phe  
20 25 30  
Arg Leu Ala Leu Gly Ser Phe Val Glu Glu Tyr Asn Asn Lys Val Gln  
35 40 45  
Leu Val Gly Leu Asp Glu Glu Ser Ser Glu Phe Ile Cys Arg Asn Thr  
50 55 60



Phe Asp His Pro Tyr Pro Thr Thr Lys Leu Met Trp Ile Pro Asp Thr  
 65 70 75 80  
 Lys Gly Val Tyr Pro Asp Leu Leu Ala Thr Ser Gly Asp Tyr Leu Arg  
 85 90 95  
 Val Trp Arg Val Gly Glu Thr Glu Thr Arg Leu Glu Cys Leu Leu Asn  
 100 105 110  
 Asn Asn Lys Asn Ser Asp Phe Cys Ala Pro Leu Thr Ser Phe Asp Trp  
 115 120 125  
 Asn Glu Val Asp Pro Tyr Leu Leu Gly Thr Ser Ser Ile Asp Thr Thr  
 130 135 140  
 Cys Thr Ile Trp Gly Leu Glu Thr Gly Gln Val Leu Gly Arg Val Asn  
 145 150 155 160  
 Leu Val Ser Gly His Val Lys Thr Gln Leu Ile Ala His Asp Lys Glu  
 165 170 175  
 Val Tyr Asp Ile Ala Phe Ser Arg Ala Gly Gly Gly Arg Asp Met Phe  
 180 185 190  
 Ala Ser Val Gly Ala Asp Gly Ser Val Arg Met Phe Asp Leu Arg His  
 195 200 205  
 Leu Glu His Ser Thr Ile Ile Tyr Glu Asp Pro Gln His His Pro Leu  
 210 215 220  
 Leu Arg Leu Cys Trp Asn Lys Gln Asp Pro Asn Tyr Leu Ala Thr Met  
 225 230 235 240  
 Ala Met Asp Gly Met Glu Val Val Ile Leu Asp Val Arg Val Pro Ala  
 245 250 255  
 His Leu Xaa Pro Gly Thr Thr Ile Glu His Val Ser Met Ala Leu Leu  
 260 265 270  
 Gly Pro His Ile His Pro Ala Thr Ser Ala Leu Gln Arg Met Thr Thr  
 275 280 285  
 Arg Leu Ser Ser Gly Thr Ser Ser Lys Cys Pro Glu Pro Leu Arg Thr  
 290 295 300  
 Leu Ser Trp Pro Thr Gln Leu Xaa Gly Glu Ile Asn Asn Val Gln Trp  
 305 310 315 320  
 Ala Ser Thr Gln Pro Glu Leu Ser Pro Ser Ala Thr Thr Thr Ala Trp  
 325 330 335  
 Arg Tyr Ser Glu Cys Ser Val Gly Gly Ala Val Pro Thr Arg Gln Gly  
 340 345 350  
 Leu Leu Tyr Phe Leu Pro Leu Pro His Pro Gln Ser  
 355 360

<210> 1009  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 1009  
 Met Ser Leu His Gly Lys Arg Lys Glu Ile Tyr Lys Tyr Glu Ala Pro  
   1                  5                  10                  15  
 Trp Thr Val Tyr Ala Met Asn Trp Ser Val Arg Pro Asp Lys Arg Phe  
                   20                  25                  30  
 Arg Leu Ala Leu Gly Ser Phe Val Glu Glu Tyr Asn Asn Lys Val Gln  
                   35                  40                  45  
 Leu Val Gly Leu Asp Glu Glu Ser Ser Glu Phe Ile Cys Arg Asn Thr  
                   50                  55                  60  
 Phe Asp His Pro Tyr Pro Thr Thr Lys Leu Met Trp Ile Pro Asp Thr  
                   65                  70                  75                  80  
 Lys Gly Val Tyr Pro Asp Leu Leu Ala Thr Ser Gly Asp Tyr Leu Arg  
                   85                  90                  95  
 Val Trp Arg Val Gly Glu Thr Glu Thr Arg Leu Glu Cys Leu Leu Asn  
                   100                  105                  110  
 Asn Asn Lys Asn Ser Asp Phe Cys Ala Pro Leu Thr Ser Phe Asp Trp  
                   115                  120                  125  
 Asn Glu Val Asp Pro Tyr Leu Leu  
                   130                  135

<210> 1010  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (135)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1010  
 Ser Phe Asp Trp Asn Glu Val Asp Pro Tyr Leu Leu Gly Thr Ser Ser  
   1                  5                  10                  15  
 Ile Asp Thr Thr Cys Thr Ile Trp Gly Leu Glu Thr Gly Gln Val Leu  
                   20                  25                  30  
 Gly Arg Val Asn Leu Val Ser Gly His Val Lys Thr Gln Leu Ile Ala  
                   35                  40                  45  
 His Asp Lys Glu Val Tyr Asp Ile Ala Phe Ser Arg Ala Gly Gly Gly  
                   50                  55                  60  
 Arg Asp Met Phe Ala Ser Val Gly Ala Asp Gly Ser Val Arg Met Phe

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     | 70  |     | 75  |     | 80  |     |     |     |     |     |     |     |     |     |
| Asp | Leu | Arg | His | Leu | Glu | His | Ser | Thr | Ile | Ile | Tyr | Glu | Asp | Pro | Gln |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| His | His | Pro | Leu | Leu | Arg | Leu | Cys | Trp | Asn | Lys | Gln | Asp | Pro | Asn | Tyr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Ala | Thr | Met | Ala | Met | Asp | Gly | Met | Glu | Val | Val | Ile | Leu | Asp | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Val | Pro | Ala | His | Leu | Xaa | Pro | Gly | Thr | Thr | Ile |     |     |     |     |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

<210> 1011  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1011  

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Ala | Asp | Gly | Ser | Val | Arg | Met | Phe | Asp | Leu | Arg | His | Leu | Glu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| His | Ser | Thr | Ile | Ile | Tyr | Glu | Asp | Pro | Gln | His | His | Pro | Leu | Leu | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Cys | Trp | Asn | Lys | Gln | Asp | Pro | Asn | Tyr | Leu | Ala | Thr | Met | Ala | Met |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asp | Gly | Met | Glu | Val | Val | Ile | Leu | Asp | Val | Arg | Val | Pro | Ala | His | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Xaa | Pro | Gly | Thr | Thr | Ile | Glu | His | Val | Ser | Met | Ala | Leu | Leu | Gly | Pro |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| His | Ile | His | Pro | Ala | Thr | Ser | Ala | Leu | Gln | Arg | Met | Thr | Thr | Arg | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Ser | Gly | Thr | Ser | Ser | Lys | Cys | Pro | Glu | Pro | Leu | Arg | Thr | Leu | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Trp | Pro | Thr | Gln | Leu | Xaa | Gly | Glu | Ile | Asn | Asn | Val | Gln | Trp | Ala | Ser |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Thr | Gln | Pro | Glu | Leu | Ser | Pro | Ser | Ala | Thr | Thr | Thr | Ala | Trp | Arg | Tyr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

Ser Glu Cys Ser Val Gly Gly Ala Val Pro Thr Arg Gln Gly Leu Leu  
 145 150 155 160

Tyr Phe Leu Pro Leu Pro His Pro Gln Ser  
 165 170

<210> 1012

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1012

Leu Tyr Ala Thr Ala Thr Val Ile Ser Ser Pro Ser Thr Glu Xaa Leu  
 1 5 10 15

Ser Gln Asp Gln Gly Asp Arg Ala Ser Leu Asp Ala Ala Asp Ser Gly  
 20 25 30

Arg Gly Ser Trp Thr Ser Cys Ser Ser Gly Ser His Asp Asn Ile Gln  
 35 40 45

Thr Ile Gln His Gln Arg Ser Trp Glu Thr Leu Pro Phe Gly His Thr  
 50 55 60

His Phe Asp Tyr Ser Gly Asp Pro Ala Gly Leu Trp Ala Ser Ser Ser  
 65 70 75 80

His Met Asp Gln Ile Met Phe Ser Asp His Ser Thr Lys Tyr Asn Arg  
 85 90 95

Gln Asn Gln Ser Arg Glu Ser Leu Glu Gln Ala Gln Ser Arg Ala Ser  
 100 105 110

Trp Ala Ser Ser Thr Gly Tyr Trp Gly Glu Asp Ser Glu Gly Asp Thr  
 115 120 125

Gly Thr Ile Lys Arg Arg Gly Gly Lys Asp Val Ser Ile Glu Ala Glu  
 130 135 140

Ser Ser Ser Leu Thr Ser Val Thr Thr Glu Glu Thr Lys Pro Val Pro  
 145 150 155 160

Met Pro Ala His Ile Ala Val Ala Ser Ser Thr Thr Lys Gly Leu Ile  
 165 170 175

Ala Arg Lys Glu Gly Arg Tyr Arg Glu Pro Pro Pro Thr Pro Pro Gly  
 180 185 190

Tyr Ile Gly Ile Pro Ile Thr Asp Phe Pro Glu Gly His Ser His Pro  
195 200 205

Ala Arg Lys Pro Pro Asp Tyr Asn Val Ala Leu Gln Arg Ser Arg Met  
210 215 220

Val Ala Arg Ser Ser Asp Thr Ala Gly Pro Ser Ser Val Gln Gln Pro  
225 230 235 240

His Gly His Pro Thr Ser Ser Arg Pro Val Asn Lys Pro Gln Trp His  
245 250 255

Lys Xaa Asn Glu Ser Asp Pro Arg Leu Ala Pro Tyr Gln Ser Gln Gly  
260 265 270

Phe Ser Thr Glu Glu Asp Glu Asp Glu Gln Val Ser Ala Val  
275 280 285

<210> 1013

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1013

His Met Asp Gln Ile Met Phe Ser Asp His Ser Thr Lys Tyr Asn Arg  
1 5 10 15

Gln Asn Gln Ser Arg Glu Ser Leu Glu Gln Ala Gln Ser Arg Ala Ser  
20 25 30

Trp Ala Ser Ser Thr Gly Tyr Trp Gly Glu  
35 40

<210> 1014

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1014

Ser Val Thr Thr Glu Glu Thr Lys Pro Val Pro Met Pro Ala His Ile  
1 5 10 15

Ala Val Ala Ser Ser Thr Thr Lys Gly Leu Ile Ala Arg Lys Glu Gly  
20 25 30

Arg Tyr Arg Glu Pro Pro Pro Thr Pro Pro Gly Tyr Ile Gly Ile Pro  
35 40 45

Ile Thr Asp  
50

<210> 1015

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1015

Val Ala Leu Gln Arg Ser Arg Met Val Ala Arg Ser Ser Asp Thr Ala  
1 5 10 15

Gly Pro Ser Ser Val Gln Gln Pro His Gly His Pro Thr Ser Ser Arg  
20 25 30

Pro Val Asn Lys Pro Gln Trp His Lys Xaa Asn Glu Ser Asp Pro Arg  
35 40 45

Leu Ala Pro Tyr Gln Ser Gln Gly Phe  
50 55

<210> 1016

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1016

Cys Leu Leu Phe Val Phe Val Ser Leu Gly Met Arg Cys Leu Phe Trp  
1 5 10 15

Thr Ile Val Tyr Asn Val Leu Tyr Leu Lys His Lys Cys Asn Thr Val  
20 25 30

Leu Leu Cys Tyr His Leu Cys Ser Ile  
35 40

<210> 1017

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1017

Ala Cys Ser Lys Leu Ile Pro Ala Phe Glu Met Val Met Arg Ala Lys  
 1 5 10 15

Asp Asn Val Tyr His Leu Asp Cys Phe Ala Cys Gln Leu Cys Asn Gln  
 20 25 30

Arg Xaa Cys Val Gly Asp Lys Phe Phe Leu Lys Asn Asn Xaa Xaa Leu  
 35 40 45

Cys Gln Thr Asp Tyr Glu Glu Gly Leu Met Lys Glu Gly Tyr Ala Pro  
 50 55 60

Xaa Val Arg  
 65

&lt;210&gt; 1018

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1018

Ser Ala Leu Ser Glu Pro Gly Ala Pro Asp Arg Arg Arg Pro Cys Pro  
 1 5 10 15

Glu Ser Val Pro Arg Arg Pro Asp Asp Glu Gln Trp Pro Pro Pro Thr  
 20 25 30

Ala Leu Cys Leu Asp Val Ala Pro Leu Pro Pro Ser Ser  
 35 40 45

&lt;210&gt; 1019

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1019

Pro Val Gly Tyr Leu Asp Lys Gln Val Pro Asp Thr Ser Val Gln Glu  
 1 5 10 15

Thr Asp Arg Ile Leu Val Glu Lys Arg Cys Trp Asp Ile Ala Leu Gly  
 20 25 30

Pro Leu Lys Gln Ile Pro Met Asn Leu Phe Ile  
 35 40

&lt;210&gt; 1020

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1020

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Ala | Ser | Glu | Ser | Gly | Glu | Arg | Trp | Trp | Ala | Cys | Cys | Gly | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Phe | Gly | Leu | Arg | Ser | Ile | Glu | Ala | Ile | Gly | Arg | Ser | Cys | Cys | His |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Gly | Pro | Gly | Gly | Leu | Val | Ala | Asn | Arg | Gly | Arg | Arg | Phe | Lys | Trp |
|     |     | 35  |     |     |     |     |     | 40  |     |     |     | 45  |     |     |     |
| Ala | Ile | Glu | Leu | Ser | Gly | Pro | Gly | Gly | Gly | Ser | Arg | Gly | Arg | Ser | Asp |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Gly | Ser | Gly | Gln | Gly | Asp | Ser | Leu | Tyr | Pro | Val | Gly | Tyr | Leu | Asp |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Lys | Gln | Val | Pro | Asp | Thr | Ser | Val | Gln | Glu | Thr | Asp | Arg | Ile | Leu | Val |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Lys | Arg | Cys | Trp | Asp | Ile | Ala | Leu | Gly | Pro | Leu | Lys | Gln | Ile | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Met | Asn | Leu | Phe | Ile | Met | Tyr | Met | Ala | Gly | Asn | Thr | Ile | Ser | Ile | Phe |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Pro | Thr | Met | Met | Val | Cys | Met | Met | Ala | Trp | Arg | Pro | Ile | Gln | Ala | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Met | Ala | Ile | Ser | Ala | Thr | Phe | Lys | Met | Leu | Glu | Ser | Ser | Ser | Gln | Lys |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Phe | Leu | Gln | Gly | Leu | Val | Tyr | Leu | Ile | Gly | Asn | Leu | Met | Gly | Leu | Ala |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Leu | Ala | Val | Tyr | Lys | Cys | Gln | Ser | Met | Gly | Leu | Leu | Pro | Thr | His | Ala |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Asp | Trp | Leu | Ala | Phe | Ile | Glu | Pro | Pro | Glu | Arg | Met | Glu | Phe | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gly | Gly | Gly | Leu | Leu | Leu |     |     |     |     |     |     |     |     |     |     |
|     | 210 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 1021

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1021

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Phe | Lys | Met | Leu | Glu | Ser | Ser | Ser | Gln | Lys | Phe | Leu | Gln | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Val | Tyr | Leu | Ile | Gly | Asn | Leu | Met | Gly | Leu | Ala | Leu | Ala | Val | Tyr |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Lys | Cys | Gln | Ser | Met | Gly | Leu | Leu | Pro | Thr | His | Ala | Ser | Asp |     |     |
|     | 35  |     |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |



<210> 1022  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1022  
 Pro Val Gly Tyr Leu Asp Lys Gln Val Pro Asp Thr Ser Val Gln Glu  
           1                  5                  10                  15  
 Thr Asp Arg Ile Leu Val Glu Lys Arg Cys Trp Asp Ile Ala Leu Gly  
                   20                  25                  30  
 Pro Leu Lys Gln Ile Pro Met Asn Leu Phe Ile  
                   35                  40

<210> 1023  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1023  
 Pro Thr Thr Lys Leu Asp Ile Met Glu Lys Lys Lys His Ile Gln Ile  
           1                  5                  10                  15  
 Arg Phe Pro Ser Phe Tyr His Lys Leu Val Asp Ser Gly Arg Met Arg  
                   20                  25                  30  
 Ser Lys Arg Glu Thr Arg Arg Glu Asp Ser Asp Thr Lys His Asn Leu  
                   35                  40                  45

<210> 1024  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1024  
 Phe Leu Trp Lys Ser Leu Leu Leu Arg Tyr Phe Lys Met Arg Gln His  
           1                  5                  10                  15

<210> 1025  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 1025  
 Tyr His Tyr Leu Leu Ser Ser Phe Leu Ser Tyr Ser Ser Ser Ser Gln  
           1                  5                  10                  15

Asn Leu Pro Val Tyr Gly Arg Lys Met Gly Thr Leu Phe Glu Cys Val  
 20 25 30

Phe Phe Phe Pro  
 35

<210> 1026  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 1026  
 Thr Glu His Ile Ile Ala Val Met Ile Thr Glu Leu Arg Gly Lys Asp  
 1 5 10 15

Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln Met Thr Ile Ala  
 20 25 30

Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg Gly Ser Leu Val  
 35 40 45

Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile Ser Ser Ala Trp  
 50 55 60

Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr Asn Ala Arg Asp  
 65 70 75 80

Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys Ala Ile Ser Lys  
 85 90 95

Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys Glu Thr Asp Pro Asp  
 100 105 110

Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr Lys Gln Asn Asp Val  
 115 120 125

Val Arg Ile Leu Pro Cys Lys His Val Phe His Lys Ser Cys Val Asp  
 130 135 140

Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met Cys Lys Leu Asn Ile  
 145 150 155 160

Leu Lys Ala Leu Gly Ile Val  
 165

<210> 1027  
 <211> 276  
 <212> PRT  
 <213> Homo sapiens

<400> 1027  
 Met Thr His Pro Gly Thr Glu His Ile Ile Ala Val Met Ile Thr Glu  
 1 5 10 15

Leu Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val

| 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gln | Met | Thr | Ile | Ala | Val | Gly | Thr | Arg | Met | Pro | Pro | Lys | Asn | Phe | Ser |  |
| 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |     |  |
| Arg | Gly | Ser | Leu | Val | Phe | Val | Ser | Ile | Ser | Phe | Ile | Val | Leu | Met | Ile |  |
| 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |  |
| Ile | Ser | Ser | Ala | Trp | Leu | Ile | Phe | Tyr | Phe | Ile | Gln | Lys | Ile | Arg | Tyr |  |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Thr | Asn | Ala | Arg | Asp | Arg | Asn | Gln | Arg | Arg | Leu | Gly | Asp | Ala | Ala | Lys |  |
| 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |     |     |     |  |
| Lys | Ala | Ile | Ser | Lys | Leu | Thr | Thr | Arg | Thr | Val | Lys | Lys | Gly | Asp | Lys |  |
| 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |     |     |  |
| Glu | Thr | Asp | Pro | Asp | Phe | Asp | His | Cys | Ala | Val | Cys | Ile | Glu | Ser | Tyr |  |
| 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |     |  |
| Lys | Gln | Asn | Asp | Val | Val | Arg | Ile | Leu | Pro | Cys | Lys | His | Val | Phe | His |  |
| 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |  |
| Lys | Ser | Cys | Val | Asp | Pro | Trp | Leu | Ser | Glu | His | Cys | Thr | Cys | Pro | Met |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Cys | Lys | Leu | Asn | Ile | Leu | Lys | Ala | Leu | Gly | Ile | Val | Pro | Asn | Leu | Pro |  |
| 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     |     |  |
| Cys | Thr | Asp | Asn | Val | Ala | Phe | Asp | Met | Glu | Arg | Leu | Thr | Arg | Thr | Gln |  |
| 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     |     |  |
| Ala | Val | Asn | Arg | Arg | Ser | Ala | Leu | Gly | Asp | Leu | Ala | Gly | Asp | Asn | Ser |  |
| 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |     |  |
| Leu | Gly | Leu | Glu | Pro | Leu | Arg | Thr | Ser | Gly | Ile | Ser | Pro | Leu | Pro | Gln |  |
| 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |     |  |
| Asp | Gly | Glu | Leu | Thr | Pro | Arg | Thr | Gly | Glu | Ile | Asn | Ile | Ala | Val | Thr |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Lys | Glu | Trp | Phe | Ile | Ile | Ala | Ser | Phe | Gly | Leu | Leu | Ser | Ala | Leu | Thr |  |
| 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |     |     |     |  |
| Leu | Cys | Tyr | Met | Ile | Ile | Arg | Ala | Thr | Ala | Ser | Leu | Asn | Ala | Asn | Glu |  |
| 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |     |     |  |
| Val | Glu | Trp | Phe |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 275 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

&lt;210&gt; 1028

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1028

Thr Glu His Ile Ile Ala Val Met Ile Thr Glu Leu Arg Gly Lys Asp

1                      5                      10                      15  
 Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln Met Thr Ile Ala  
                     20                      25                      30  
 Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg Gly Ser Leu Val  
                     35                      40                      45  
 Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile Ser Ser Ala Trp  
                     50                      55                      60  
 Leu Ile Phe Tyr Phe  
 65

<210> 1029

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1029

Ser Ile Ser Phe Ile Val Leu Met Ile Ile Ser Ser Ala Trp Leu Ile  
 1                      5                      10                      15

Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr Asn Ala Arg Asp Arg Asn  
                     20                      25                      30

Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys Ala Ile Ser Lys Leu Thr  
                     35                      40                      45

Thr Arg Thr Val Lys Lys Gly Asp Lys Glu  
 50                      55

<210> 1030

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1030

Val Lys Lys Gly Asp Lys Glu Thr Asp Pro Asp Phe Asp His Cys Ala  
 1                      5                      10                      15

Val Cys Ile Glu Ser Tyr Lys Gln Asn Asp Val Val Arg Ile Leu Pro  
                     20                      25                      30

Cys Lys His Val Phe His Lys Ser Cys Val Asp Pro Trp Leu Ser Glu  
                     35                      40                      45

His Cys Thr Cys Pro Met Cys Lys Leu Asn Ile Leu Lys Ala Leu Gly  
 50                      55                      60

Ile Val  
 65

<210> 1031

<211> 106

<212> PRT  
 <213> Homo sapiens

<400> 1031

```
Met Thr His Pro Gly Thr Glu His Ile Ile Ala Val Met Ile Thr Glu
  1              5              10              15

Leu Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val
              20              25              30

Gln Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser
              35              40              45

Arg Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile
  50              55              60

Ile Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr
  65              70              75              80

Thr Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys
              85              90              95

Lys Ala Ile Ser Lys Leu Thr Thr Arg Thr
  100              105
```

<210> 1032  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 1032

```
Ala Ala Lys Lys Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys
  1              5              10              15

Gly Asp Lys Glu Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile
              20              25              30

Glu Ser Tyr Lys Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His
              35              40              45

Val Phe His Lys Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr
  50              55              60

Cys Pro Met Cys Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro
  65              70              75              80

Asn Leu Pro Cys
```

<210> 1033  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 1033

```
Thr Gln Ala Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp
```

|   |    |    |    |
|---|----|----|----|
| 1   | 5  | 10 | 15 |
| Asn Ser Leu Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu |    |    |    |
| 20  | 25 | 30 |    |
| Pro Gln Asp Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala |    |    |    |
| 35  | 40 | 45 |    |
| Val Thr Lys Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala |    |    |    |
| 50  | 55 | 60 |    |
| Leu Thr Leu Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala |    |    |    |
| 65  | 70 | 75 | 80 |
| Asn Glu Val Glu Trp Phe   |    |    |    |
| 85  |    |    |    |

&lt;210&gt; 1034

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1034

|   |   |    |    |
|---|---|----|----|
| Pro Leu His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg |   |    |    |
| 1   | 5 | 10 | 15 |

|   |    |    |  |
|---|----|----|--|
| Phe Phe Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg |    |    |  |
| 20  | 25 | 30 |  |

|   |    |    |  |
|---|----|----|--|
| Gly Asn Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn |    |    |  |
| 35  | 40 | 45 |  |

|   |    |    |  |
|---|----|----|--|
| Ala Val Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val |    |    |  |
| 50  | 55 | 60 |  |

|   |    |    |    |
|---|----|----|----|
| Thr Met Thr His Pro Gly Thr Glu His Ile Ile Ala Val Met Ile Thr |    |    |    |
| 65  | 70 | 75 | 80 |

|   |    |    |  |
|---|----|----|--|
| Glu Leu Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser |    |    |  |
| 85  | 90 | 95 |  |

|   |     |     |  |
|---|-----|-----|--|
| Val Gln Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe |     |     |  |
| 100   | 105 | 110 |  |

|   |     |     |  |
|---|-----|-----|--|
| Ser Arg Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met |     |     |  |
| 115   | 120 | 125 |  |

|   |     |     |  |
|---|-----|-----|--|
| Ile Ile Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg |     |     |  |
| 130   | 135 | 140 |  |

|   |     |     |     |
|---|-----|-----|-----|
| Tyr Thr Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala |     |     |     |
| 145   | 150 | 155 | 160 |

|   |     |     |  |
|---|-----|-----|--|
| Lys Lys Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp |     |     |  |
| 165   | 170 | 175 |  |

|   |  |  |  |
|---|--|--|--|
| Lys Glu Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser |  |  |  |
|---|--|--|--|

|   |     |     |
|---|-----|-----|
| 180   | 185 | 190 |
| Tyr Lys Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe |     |     |
| 195   | 200 | 205 |
| His Lys Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro |     |     |
| 210   | 215 | 220 |
| Met Cys Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu |     |     |
| 225   | 230 | 235 |
| Pro Cys Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr |     |     |
| 245   | 250 | 255 |
| Gln Ala Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn |     |     |
| 260   | 265 | 270 |
| Ser Leu Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro |     |     |
| 275   | 280 | 285 |
| Gln Asp Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val |     |     |
| 290   | 295 | 300 |
| Thr Lys Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu |     |     |
| 305   | 310 | 315 |
| Thr Leu Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn |     |     |
| 325   | 330 | 335 |
| Glu Val Glu Trp Phe   |     |     |
| 340   |     |     |

<210> 1035  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1035  
 His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe  
 1 5 10 15  
 Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn  
 20 25 30  
 Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val  
 35 40 45  
 Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu  
 50 55 60

<210> 1036  
 <211> 314  
 <212> PRT  
 <213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (189)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1036

Met Ser Gly Gln Gly Leu Ala Gly Phe Phe Ala Ser Val Ala Met Ile  
 1 5 10 15

Cys Ala Ile Ala Ser Gly Ser Glu Leu Ser Glu Ser Ala Phe Gly Tyr  
 20 25 30

Phe Ile Thr Ala Cys Ala Val Ile Ile Leu Thr Ile Ile Cys Tyr Leu  
 35 40 45

Gly Leu Pro Arg Leu Glu Phe Tyr Arg Tyr Tyr Gln Gln Leu Lys Leu  
 50 55 60

Glu Gly Pro Gly Glu Gln Glu Thr Lys Leu Asp Leu Ile Ser Lys Gly  
 65 70 75 80

Glu Glu Pro Arg Ala Gly Lys Glu Glu Ser Gly Val Ser Val Ser Asn  
 85 90 95

Ser Gln Pro Thr Asn Glu Ser His Ser Ile Lys Ala Ile Leu Lys Asn  
 100 105 110

Ile Ser Val Leu Ala Phe Ser Val Cys Phe Ile Phe Thr Ile Thr Ile  
 115 120 125

Gly Met Phe Pro Ala Val Thr Val Glu Val Lys Ser Ser Ile Ala Gly  
 130 135 140

Ser Ser Thr Trp Glu Arg Tyr Phe Ile Pro Val Ser Cys Phe Leu Thr  
 145 150 155 160

Phe Asn Ile Phe Asp Trp Leu Gly Arg Ser Leu Thr Ala Val Phe Met  
 165 170 175

Trp Pro Gly Lys Asp Ser Arg Trp Leu Pro Ser Trp Xaa Leu Ala Arg  
 180 185 190

Leu Val Phe Val Pro Leu Leu Leu Leu Cys Asn Ile Lys Pro Arg Arg  
 195 200 205

Tyr Leu Thr Val Val Phe Glu His Asp Ala Trp Phe Ile Phe Phe Met  
 210 215 220

Ala Ala Phe Ala Phe Ser Asn Gly Tyr Leu Ala Ser Leu Cys Met Cys  
 225 230 235 240

Phe Gly Pro Lys Lys Val Lys Pro Ala Glu Ala Glu Thr Ala Glu Pro  
 245 250 255

Ser Trp Pro Ser Ser Cys Val Trp Val Trp His Trp Gly Leu Phe Ser  
 260 265 270

Pro Ser Cys Ser Gly Gln Leu Cys Asp Lys Gly Trp Thr Glu Gly Leu  
 275 280 285



Pro Ala Ser Leu Pro Val Cys Leu Leu Pro Leu Pro Ser Ala Arg Gly  
 290 295 300

Asp Pro Glu Trp Ser Gly Gly Phe Phe Phe  
 305 310

<210> 1037  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 1037  
 Met Ser Gly Gln Gly Leu Ala Gly Phe Phe Ala Ser Val Ala Met Ile  
 1 5 10 15  
 Cys Ala Ile Ala Ser Gly Ser Glu Leu Ser Glu Ser Ala Phe Gly Tyr  
 20 25 30  
 Phe Ile Thr Ala Cys Ala Val Ile Ile Leu Thr Ile Ile Cys Tyr Leu  
 35 40 45  
 Gly Leu Pro Arg Leu Glu Phe Tyr Arg Tyr Tyr Gln Gln Leu Lys Leu  
 50 55 60  
 Glu Gly Pro Gly Glu Gln Glu Thr Lys Leu Asp Leu Ile Ser Lys Gly  
 65 70 75 80  
 Glu Glu Pro Arg Ala Gly Lys Glu Glu Ser Gly Val Ser Val Ser Asn  
 85 90 95  
 Ser Gln Pro Thr Asn Glu Ser His Ser Ile  
 100 105

<210> 1038  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1038  
 Ser Gly Val Ser Val Ser Asn Ser Gln Pro Thr Asn Glu Ser His Ser  
 1 5 10 15  
 Ile Lys Ala Ile Leu Lys Asn Ile Ser Val Leu Ala Phe Ser Val Cys  
 20 25 30  
 Phe Ile Phe Thr Ile Thr Ile Gly Met Phe Pro Ala Val Thr Val Glu  
 35 40 45  
 Val Lys Ser Ser Ile Ala Gly Ser Ser Thr Trp Glu Arg Tyr Phe Ile  
 50 55 60  
 Pro Val Ser Cys Phe Leu Thr Phe Asn Ile Phe Asp Trp Leu Gly Arg  
 65 70 75 80  
 Ser

<210> 1039  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1039  
 Thr Ile Gly Met Phe Pro Ala Val Thr Val Glu Val Lys Ser Ser Ile  
 1 5 10 15  
 Ala Gly Ser Ser Thr Trp Glu Arg Tyr Phe Ile Pro Val Ser Cys Phe  
 20 25 30  
 Leu Thr Phe Asn Ile Phe Asp Trp Leu Gly Arg Ser Leu Thr Ala Val  
 35 40 45  
 Phe Met Trp Pro Gly Lys Asp Ser Arg Trp Leu Pro Ser Trp Xaa Leu  
 50 55 60  
 Ala Arg Leu Val Phe Val Pro Leu Leu Leu Leu Cys Asn Ile Lys Pro  
 65 70 75 80  
 Arg Arg Tyr Leu Thr Val Val Phe Glu His Asp Ala  
 85 90

<210> 1040  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 1040  
 Phe Gly Pro Lys Lys Val Lys Pro Ala Glu Ala Glu Thr Ala Glu Pro  
 1 5 10 15  
 Ser Trp Pro Ser Ser Cys Val Trp Val Trp His Trp Gly Leu Phe Ser  
 20 25 30  
 Pro Ser Cys Ser Gly Gln Leu Cys Asp Lys Gly Trp Thr Glu Gly Leu  
 35 40 45  
 Pro Ala Ser Leu Pro Val Cys Leu Leu Pro Leu Pro Ser Ala Arg Gly  
 50 55 60  
 Asp Pro Glu Trp Ser Gly Gly Phe Phe Phe  
 65 70

<210> 1041  
 <211> 135  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

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<220>

<221> SITE

<222> (101)

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<221> SITE

<222> (102)

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<220>

<221> SITE

<222> (103)

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<220>

<221> SITE

<222> (104)

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<221> SITE

<222> (105)

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<221> SITE

<222> (106)

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<220>  
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<220>  
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 <222> (111)  
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<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (130)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1041  
 Asp Asp Asp Gly Phe Glu Ile Val Pro Ile Glu Asp Pro Ala Lys His  
 1 5 10 15  
 Arg Ile Leu Asp Pro Glu Gly Leu Ala Leu Gly Ala Val Ile Ala Ser  
 20 25 30  
 Ser Lys Lys Ala Lys Arg Asp Leu Ile Asp Asn Ser Phe Asn Arg Tyr  
 35 40 45  
 Thr Phe Asn Glu Asp Glu Gly Glu Leu Pro Glu Trp Phe Val Gln Glu  
 50 55 60  
 Glu Lys Gln His Arg Ile Arg Gln Leu Pro Val Gly Lys Lys Glu Val  
 65 70 75 80  
 Glu His Tyr Arg Lys Arg Trp Arg Glu Ile Asn Ala Arg Pro Ile Xaa  
 85 90 95  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 100 105 110  
 Leu Glu Gln Thr Arg Lys Lys Ala Glu Ala Val Val Asn Thr Val Asp  
 115 120 125

Ile Xaa Arg Thr Arg Glu Ser  
130 135

<210> 1042  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 1042  
Asp Asp Asp Gly Phe Glu Ile Val Pro Ile Glu Asp Pro Ala Lys His  
1 5 10 15

Arg Ile Leu Asp Pro Glu Gly Leu Ala Leu Gly Ala Val Ile Ala Ser  
20 25 30

Ser Lys Lys Ala Lys Arg Asp Leu Ile Asp Asn Ser Phe Asn Arg Tyr  
35 40 45

Thr Phe  
50

<210> 1043  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Lys Arg Trp Arg Glu Ile Asn Ala Arg Pro Ile Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Glu Gln Thr  
20 25 30

Arg Lys Lys Ala Glu Ala Val Val Asn Thr Val Asp Ile Xaa Arg Thr  
35 40 45

Arg Glu Ser  
50

<211> 216

<212> PRT

<213> Homo sapiens

Met Ile Lys Asp Lys Gly Arg Ala Arg Thr Ala Leu Thr Ser Ser Gln  
1 5 10 15

Pro Ala His Leu Cys Pro Glu Asn Pro Leu Leu His Leu Lys Ala Ala  
20 25 30

Val Lys Glu Lys Lys Arg Asn Lys Lys Lys Lys Thr Ile Gly Ser Pro  
35 40 45

Lys Arg Ile Gln Ser Pro Leu Asn Asn Lys Leu Leu Asn Ser Pro Ala  
50 55 60

Lys Thr Leu Pro Gly Ala Cys Gly Ser Pro Gln Lys Leu Ile Asp Gly  
65 70 75 80

Phe Leu Lys His Glu Gly Pro Pro Ala Glu Lys Pro Leu Glu Glu Leu  
85 90 95

Ser Ala Ser Thr Ser Gly Val Pro Gly Leu Ser Ser Leu Gln Ser Asp  
100 105 110

Pro Ala Gly Cys Val Arg Pro Pro Ala Pro Asn Leu Ala Gly Ala Val  
115 120 125

Glu Phe Asn Asp Val Lys Thr Leu Leu Arg Glu Trp Ile Thr Thr Ile  
130 135 140

Ser Asp Pro Met Glu Glu Asp Ile Leu Gln Val Val Lys Tyr Cys Thr  
145 150 155 160

Asp Leu Ile Glu Glu Lys Asp Leu Glu Lys Leu Asp Leu Val Ile Lys  
165 170 175

Tyr Met Lys Arg Leu Met Gln Gln Ser Val Glu Ser Val Trp Asn Met  
180 185 190

Ala Phe Asp Phe Ile Leu Asp Asn Val Gln Val Val Leu Gln Gln Thr  
 195 200 205

Tyr Gly Ser Thr Leu Lys Val Thr  
 210 215

<210> 1045

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1045

Met Ile Lys Asp Lys Gly Arg Ala Arg Thr Ala Leu Thr Ser Ser Gln  
 1 5 10 15

Pro Ala His Leu Cys Pro Glu Asn Pro Leu Leu His Leu Lys Ala Ala  
 20 25 30

Val Lys Glu Lys Lys Arg Asn Lys Lys Lys Lys Thr Ile Gly Ser Pro  
 35 40 45

Lys Arg Ile Gln  
 50

<210> 1046

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1046

Lys Arg Ile Gln Ser Pro Leu Asn Asn Lys Leu Leu Asn Ser Pro Ala  
 1 5 10 15

Lys Thr Leu Pro Gly Ala Cys Gly Ser Pro Gln Lys Leu Ile Asp Gly  
 20 25 30

Phe Leu Lys His Glu Gly Pro Pro Ala Glu Lys Pro Leu Glu Glu Leu  
 35 40 45

Ser Ala Ser Thr Ser Gly Val Pro Gly Leu Ser Ser Leu Gln Ser Asp  
 50 55 60

Pro Ala Gly Cys Val Arg Pro Pro Ala Pro Asn Leu Ala Gly Ala Val  
 65 70 75 80

Glu Phe Asn Asp Val Lys Thr Leu Leu Arg Glu Trp Ile Thr Thr Ile  
 85 90 95

Ser Asp Pro Met  
 100

<210> 1047

<211> 74

<212> PRT



3> Homo sapiens

0> 1047

Ile Ser Asp Pro Met Glu Glu Asp Ile Leu Gln Val Val Lys Tyr  
5 10 15

Thr Asp Leu Ile Glu Glu Lys Asp Leu Glu Lys Leu Asp Leu Val  
20 25 30

Lys Tyr Met Lys Arg Leu Met Gln Gln Ser Val Glu Ser Val Trp  
35 40 45

Met Ala Phe Asp Phe Ile Leu Asp Asn Val Gln Val Val Leu Gln  
50 55 60

Thr Tyr Gly Ser Thr Leu Lys Val Thr  
5 70

10> 1048

11> 156

12> PRT

13> Homo sapiens

00> 1048

1 Cys Cys Lys Thr Thr Trp Thr Leu Ser Arg Ile Lys Ser Asn Ala  
1 5 10 15

e Phe Gln Thr Asp Ser Thr Asp Cys Cys Ile Ser Leu Phe Met Tyr  
20 25 30

le Ile Thr Arg Ser Ser Phe Ser Lys Ser Phe Ser Ser Ile Arg Ser  
35 40 45

l Gln Tyr Phe Thr Thr Trp Arg Met Ser Ser Ser Ile Gly Ser Glu  
50 55 60

le Val Val Ile His Ser Leu Ser Lys Val Phe Thr Ser Leu Asn Ser  
55 70 75 80

ar Ala Pro Ala Arg Leu Gly Ala Gly Gly Leu Thr Gln Pro Ala Gly  
85 90 95

er Asp Cys Lys Leu Glu Arg Pro Gly Thr Pro Glu Val Glu Ala Glu  
100 105 110

er Ser Ser Arg Gly Phe Ser Ala Gly Gly Pro Ser Cys Phe Arg Asn  
115 120 125

ro Ser Ile Asn Phe Trp Gly Leu Pro Gln Ala Pro Gly Arg Val Phe  
130 135 140

la Gly Leu Leu Ser Ser Leu Leu Phe Lys Gly Leu  
145 150 155

:210> 1049

:211> 25

<212> PRT  
 <213> Homo sapiens

<400> 1049

Trp Thr Leu Ser Arg Ile Lys Ser Asn Ala Ile Phe Gln Thr Asp Ser  
 1 5 10 15

Thr Asp Cys Cys Ile Ser Leu Phe Met  
 20 25

<210> 1050  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 1050

Phe Thr Thr Trp Arg Met Ser Ser Ser Ile Gly Ser Glu Ile Val Val  
 1 5 10 15

Ile His Ser Leu Ser Lys Val Phe Thr Ser Leu Asn Ser Thr Ala Pro  
 20 25 30

Ala Arg Leu Gly Ala  
 35

<210> 1051  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 1051

Gly Gly Pro Ser Cys Phe Arg Asn Pro Ser Ile Asn Phe Trp Gly Leu  
 1 5 10 15

Pro Gln Ala Pro Gly Arg Val Phe Ala Gly Leu Leu  
 20 25

<210> 1052  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 1052

Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Asn Cys  
 1 5 10 15

Glu Pro

<210> 1053  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1053

Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Asn Cys  
 1 5 10 15

Glu Pro

&lt;210&gt; 1054

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1054

His Glu Pro Tyr Ala Val Leu Val Ile  
 1 5

&lt;210&gt; 1055

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1055

Pro Gln Pro Ser Asn Phe Pro Thr Thr Val Arg Asn Leu Pro Tyr Ser  
 1 5 10 15

Gly Ala Gly Ala Gln Pro Pro Pro Ser Asn Cys  
 20 25

&lt;210&gt; 1056

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1056

Met Ala Ser Ser Val Pro Ala Gly Gly His Thr Arg Ala Gly Gly Ile  
 1 5 10 15

Phe Leu Ile Gly Lys Leu Asp Leu Glu Ala Ser Leu Phe Lys Ser Phe  
 20 25 30

Gln Trp Leu Pro Phe Val Leu Arg Lys Lys Cys Asn Phe Phe Cys Trp  
 35 40 45

Asp Ser Ser Ala His Ser Leu Pro Leu His Pro Leu Ser Ala Ser Cys  
 50 55 60

Ser Ala Pro Ala Cys His Ala Ser Asp Thr His Leu Leu Tyr Pro Ser  
 65 70 75 80

Thr Arg Ala Leu Cys Pro Ser Ile Phe Ala Trp Leu Val Ala Pro His

85

90

95

Ser Val Phe Arg Thr Asn Ala Pro Gly Pro Thr Pro Ser Ser Gln Ser  
 100 105 110

Ser Pro Val Phe Pro Val Phe Pro Val Ser Phe Met Ala Leu Ile Val  
 115 120 125

Cys Xaa Leu Val Cys Cys  
 130

<210> 1057

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1057

Met Ala Ser Ser Val Pro Ala Gly Gly His Thr Arg Ala Gly Gly Ile  
 1 5 10 15

Phe Leu Ile Gly Lys Leu Asp Leu Glu Ala Ser Leu Phe Lys Ser Phe  
 20 25 30

Gln Trp Leu Pro Phe Val Leu Arg Lys Lys Cys Asn Phe Phe Cys Trp  
 35 40 45

Asp Ser Ser Ala His Ser Leu Pro Leu His Pro Leu Ser Ala Ser Cys  
 50 55 60

Ser Ala Pro Ala Cys His Ala  
 65 70

<210> 1058

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1058

Phe Ala Trp Leu Val Ala Pro His Ser Val Phe Arg Thr Asn Ala Pro  
 1 5 10 15

Gly Pro Thr Pro Ser Ser Gln Ser Ser Pro Val Phe Pro Val Phe Pro  
 20 25 30

Val Ser Phe Met Ala Leu Ile Val Cys Xaa Leu Val Cys Cys  
 35 40 45

<210> 1059

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1059

Met Ala Ser Ser Val Pro Ala Gly Gly His Thr Arg Ala Gly Gly Ile  
1 5 10 15

Phe Leu Ile Gly Lys Leu Asp Leu Glu Ala Ser Leu Phe Lys Ser Phe  
20 25 30

Gln Trp Leu Pro Phe Val Leu Arg Lys Lys Cys Asn Phe Phe Cys Trp  
35 40 45

Asp Ser Ser Ala His Ser Leu Pro Leu His Pro Leu Ser Ala Ser Cys  
50 55 60

Ser Ala Pro Ala Cys His Ala Ser Asp Thr His Leu Leu Tyr Pro Ser  
65 70 75 80

Thr Arg Ala Leu Cys Pro Ser Ile Phe Ala Trp Leu Val Ala Pro His  
85 90 95

Ser Val Phe Arg Thr Asn Ala Pro Gly Pro Thr Pro Ser Ser Gln Ser  
100 105 110

Ser Pro Val Phe Pro Val Phe Pro Val Ser Phe Met Ala Leu Ile Val  
115 120 125

Cys Xaa Leu Val Cys Cys  
130

<210> 1060

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1060

Leu Val Asn Trp Ile Leu Lys Leu His Cys Leu Asn Leu Phe Ser Gly  
1 5 10 15

Phe Pro Leu Tyr Leu Glu Lys Asn Ala Thr Ser Ser Ala Gly Thr His  
20 25 30

Pro Leu Thr Ala Phe Pro Ser Thr Leu Ser Leu Pro His Ala Leu Pro  
35 40 45

Leu Pro Ala Met Pro Pro Ile Leu Thr Phe Cys Thr Pro Ala Pro Val  
50 55 60

Pro Ser Ala Pro Arg Ser Leu Pro Gly Trp Leu Leu Leu Thr Gln Cys  
65 70 75 80

Ser Gly Gln Met Leu Leu Ala Leu Pro His Leu Ala Ser Leu Ala Arg  
85 90 95

Ser Ser Leu Ser Ser Leu Phe His Ser Trp Leu Leu Leu Phe Val Xaa  
100 105 110

Leu Cys Ala Val Asp Phe  
115

<210> 1061

<211> 23

<212> PRT

<213> Homo sapiens

<400> 1061

Asn Leu Phe Ser Gly Phe Pro Leu Tyr Leu Glu Lys Asn Ala Thr Ser  
1 5 10 15

Ser Ala Gly Thr His Pro Leu  
20

<210> 1062

<211> 21

<212> PRT

<213> Homo sapiens

<400> 1062

Pro His Leu Ala Ser Leu Ala Arg Ser Ser Leu Ser Ser Leu Phe His  
1 5 10 15

Ser Trp Leu Leu Leu  
20

<210> 1063

<211> 286

<212> PRT

<213> Homo sapiens

<400> 1063

Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala  
1 5 10 15

Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu  
20 25 30

His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn  
35 40 45

Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile  
50 55 60

Ala Ile Ile Val Tyr Arg Leu Pro Trp Thr Trp Lys Cys Ser Lys Leu  
65 70 75 80

Leu Met Lys Ser Ile His Ala Gly Leu Asn Ala Val Ala Ala Ile Leu  
85 90 95

Ala Ile Ile Ser Val Val Ala Val Phe Glu Asn His Asn Val Asn Asn  
100 105 110

Ile Ala Asn Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val  
115 120 125

Ile Cys Tyr Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu  
130 135 140

Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val  
145 150 155 160

Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met  
165 170 175

Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser  
180 185 190

Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile  
195 200 205

Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp  
210 215 220

Lys Arg Pro Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly  
225 230 235 240

Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn  
245 250 255

Met Asp Lys Ser Asp Ser Glu Leu Asn Ser Glu Val Ala Ala Arg Lys  
260 265 270

Arg Asn Leu Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met  
275 280 285

&lt;210&gt; 1064

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1064

Ala His Ala Ser Ala His Ala Ser Gly Gly Ala Glu Tyr Gly Ala Leu  
1 5 10 15

&lt;210&gt; 1065

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1065

Gln Tyr Ser Gln Tyr Val Gln Ser Ala Gln Leu Gly Trp Thr Asp Ser  
 1 5 10 15

Cys His Met Leu Phe Val Thr Ala Ser Phe Arg Phe Phe Ser Leu Ser  
 20 25 30

Ala Ser Met Gly Ser Ala Phe Ser Pro Ser Ile Ser His Ala His Thr  
 35 40 45

Cys Leu Phe Trp Asn Cys His Leu Trp Asn Ser Asp Cys Asn Ser Thr  
 50 55 60

Tyr Gly Ile Asp Arg Glu Thr Asp Phe Phe Pro Glu Arg Ser Cys Ile  
 65 70 75 80

Gln Tyr Ile Pro Ala Arg Arg Cys Phe Arg Lys Tyr Ala Trp Pro Ser  
 85 90 95

Asp Pro Gly Val Arg Gly Pro His Phe Leu Asp Ser His Gln Thr Ala  
 100 105 110

Met Glu Thr Ser  
 115

&lt;210&gt; 1066

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1066

Ala Ser Met Gly Ser Ala Phe Ser Pro Ser Ile Ser His Ala His Thr  
 1 5 10 15

Cys Leu Phe Trp Asn Cys His Leu Trp Asn Ser Asp Cys Asn Ser Thr  
 20 25 30

Tyr Gly

&lt;210&gt; 1067

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1067

Phe Val His Val Val Ala Arg Val Gly Trp His Gly Thr Ser Cys Ser  
 1 5 10 15

Leu Phe Ser Ala Ser Ile Trp Met Lys Asn Gly Arg Ile Trp Leu Leu  
 20 25 30

Arg Thr Phe Pro Leu Arg Ser Gly Asp Tyr Pro Lys Asn Glu Gly Pro



35

40

45

Glu His Gln Asp Gln Lys Ala Lys Arg Ile Tyr Glu Asn Thr Phe Trp  
50 55 60

Arg Glu Cys Thr Val Cys Arg Ile Ser Gln Gly Lys Asn Gln Phe Leu  
65 70 75 80

Cys Gln Ser His Lys Cys Cys Cys Asn His Cys Ser Lys Asp Asp Asn  
85 90 95

Ser Arg Ile Asn Met Tyr Gly His Glu Lys Cys Ser Glu Arg Lys Arg  
100 105 110

Ser Pro Trp Lys Gln Lys Asp  
115

<210> 1068

<211> 32

<212> PRT

<213> Homo sapiens

<400> 1068

Ala Ser Ile Trp Met Lys Asn Gly Arg Ile Trp Leu Leu Arg Thr Phe  
1 5 10 15

Pro Leu Arg Ser Gly Asp Tyr Pro Lys Asn Glu Gly Pro Glu His Gln  
20 25 30

<210> 1069

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1069

Pro Gly Arg Ala Gly Pro Ser Pro Gly Leu Ser Leu Gln Leu Pro Ala  
1 5 10 15

Glu Pro Gly His Pro Ala Gly Asn Leu Ala Pro Leu Thr Ser Arg Pro  
20 25 30

Gln Pro Leu Cys Arg Ile Pro Ala Val Pro Gly  
35 40

<210> 1070

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1070

Ala Arg Gly Arg Arg Arg Gly Arg Leu Glu Leu Trp Glu Leu Cys Leu  
1 5 10 15

Pro Leu Gly Cys Arg Arg Arg Arg Ser Leu Thr Met Ala Pro Gln Ser  
 20 25 30

Leu Pro Ser Ser Arg Met Ala Pro Leu Gly  
 35 40

<210> 1071  
 <211> 351  
 <212> PRT  
 <213> Homo sapiens

<400> 1071  
 Asn Gly Gln Ala Ser Thr Ala Lys Met Ser Ser Cys Leu Arg Ser Pro  
 1 5 10 15  
 Pro Thr Leu Ala Pro Leu Ser Leu Thr Ser Gly Ile Pro Val Gln Ser  
 20 25 30  
 Trp Cys Gly Ala Ser Ser Gln Leu Leu Gln Gln Ala Val Asp Arg Ala  
 35 40 45  
 Gln Gln Leu Leu Glu Val Ala Leu Val Leu Thr Ile Leu Gln Leu Gln  
 50 55 60  
 Ala Gly Gln His Leu Val Leu Ser Leu Gln Ala Gly Gln Cys Pro Ala  
 65 70 75 80  
 Glu Leu Gly Val Leu Thr Val Ala Val Pro Ala Gly Gly Gln Glu Asp  
 85 90 95  
 Ala Gln Cys Leu Gln His Leu Leu Thr Gly Ile Met Leu Gly Gln Arg  
 100 105 110  
 Gln Glu Val Gly Arg Asp Leu Ala Pro Ala Leu Phe Pro Gln Ala Trp  
 115 120 125  
 Gln Glu Val Tyr Leu Ala Ile Leu Leu Gln Leu Leu Trp Gly His Leu  
 130 135 140  
 Leu Gly Gln Leu Ser Leu Leu Leu Gly Glu His Leu Leu Arg Asp Gln  
 145 150 155 160  
 Val Val Glu Gln Cys Asp His Ala His Gly Glu His Leu Arg Ala Leu  
 165 170 175  
 Leu Leu His Gln Gly Pro Gln Asp Leu Gln Pro Pro Glu Leu Gln Glu  
 180 185 190  
 Leu Pro Leu Gly Ile Gly Glu Val Ala Gln Gln Gly Ala Gln Cys Lys  
 195 200 205  
 Gln Asp Leu Leu Leu Cys Ser Glu Arg Leu Leu Arg Gly Gln Asp Asp  
 210 215 220  
 Gln Gln Leu Leu Gln Gly Ser Pro Phe Asp Gly Leu His Leu Asp Leu  
 225 230 235 240

Gly Val Ala Gly Lys Gly Ser Ala Gln His Lys Arg Ser Ile Leu Leu  
245 250 255

His Glu Gly Leu Cys Ala Val Gln Pro Ile Asp His His Leu Lys Thr  
260 265 270

Thr Lys Gly Lys Gln Val Leu Arg Ile Val His Leu Met Asp Ile Ile  
275 280 285

Phe Lys Ile Lys Glu Arg Ser Asn Leu Leu Phe Gln Thr Gly Ala Gly  
290 295 300

Thr Ile Glu Leu Val Asp Gln Pro Tyr His Asp Leu His Val Ser Leu  
305 310 315 320

Asn Asp Asn Ile Gln Leu Ile Lys Val Phe Leu Gln Phe Leu Asn Gly  
325 330 335

Ala Glu Glu Pro Leu Tyr Leu Ser Leu Pro Cys Leu Val Phe Leu  
340 345 350

<210> 1072

<211> 33

<212> PRT

<213> Homo sapiens

<400> 1072

Gln His Leu Val Leu Ser Leu Gln Ala Gly Gln Cys Pro Ala Glu Leu  
1 5 10 15

Gly Val Leu Thr Val Ala Val Pro Ala Gly Gly Gln Glu Asp Ala Gln  
20 25 30

Cys

<210> 1073

<211> 26

<212> PRT

<213> Homo sapiens

<400> 1073

Gln Leu Ser Leu Leu Leu Gly Glu His Leu Leu Arg Asp Gln Val Val  
1 5 10 15

Glu Gln Cys Asp His Ala His Gly Glu His  
20 25

<210> 1074

<211> 32

<212> PRT

<213> Homo sapiens

<400> 1074

Gly Ser Pro Phe Asp Gly Leu His Leu Asp Leu Gly Val Ala Gly Lys  
 1 5 10 15

Gly Ser Ala Gln His Lys Arg Ser Ile Leu Leu His Glu Gly Leu Cys  
 20 25 30

<210> 1075

<211> 30

<212> PRT

<213> Homo sapiens

<400> 1075

His Leu Met Asp Ile Ile Phe Lys Ile Lys Glu Arg Ser Asn Leu Leu  
 1 5 10 15

Phe Gln Thr Gly Ala Gly Thr Ile Glu Leu Val Asp Gln Pro  
 20 25 30

<210> 1076

<211> 126

<212> PRT

<213> Homo sapiens

<400> 1076

Asp Glu Pro Cys Pro Pro Pro Ala Ala Ser Cys Ala Pro Pro Ser Trp  
 1 5 10 15

Arg Met Glu Leu Arg Thr Gly Ser Val Gly Ser Gln Ala Val Ala Arg  
 20 25 30

Arg Met Asp Gly Asp Ser Arg Asp Gly Gly Gly Gly Lys Asp Ala Thr  
 35 40 45

Gly Ser Glu Asp Tyr Glu Asn Leu Pro Thr Ser Ala Ser Val Ser Thr  
 50 55 60

His Met Thr Ala Gly Ala Met Ala Gly Ile Leu Glu His Ser Val Met  
 65 70 75 80

Tyr Pro Val Asp Ser Val Lys Thr Arg Met Gln Ser Leu Ser Pro Asp  
 85 90 95

Pro Lys Ala Gln Tyr Thr Ser Ile Tyr Gly Ala Leu Lys Lys Ile Met  
 100 105 110

Arg Thr Glu Ala Ser Gly Gly Pro Cys Glu Ala Ser Thr Ser  
 115 120 125

<210> 1077

<211> 34

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1077

Arg Met Glu Leu Arg Thr Gly Ser Val Gly Ser Gln Ala Val Ala Arg  
 1 5 10 15

Arg Met Asp Gly Asp Ser Arg Asp Gly Gly Gly Lys Asp Ala Thr  
 20 25 30

Gly Ser

&lt;210&gt; 1078

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1078

Pro Val Asp Ser Val Lys Thr Arg Met Gln Ser Leu Ser Pro Asp Pro  
 1 5 10 15

Lys Ala Gln Tyr Thr Ser Ile Tyr Gly Ala Leu  
 20 25

&lt;210&gt; 1079

&lt;211&gt; 424

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (152)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (314)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (359)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1079

Met Lys Leu Leu Gly Glu Cys Ser Ser Ser Ile Asp Ser Val Lys Arg  
 1 5 10 15

Leu Glu His Lys Leu Lys Glu Glu Glu Glu Ser Leu Pro Gly Phe Val  
 20 25 30

Asn Leu His Ser Thr Glu Thr Gln Thr Ala Gly Val Ile Asp Arg Trp  
 35 40 45

Glu Leu Leu Gln Ala Gln Ala Leu Ser Lys Glu Leu Arg Met Lys Gln  
 50 55 60

Asn Leu Gln Lys Trp Gln Gln Phe Asn Ser Asp Leu Asn Ser Ile Trp  
 65 70 75 80  
 Ala Trp Leu Gly Asp Thr Glu Glu Glu Leu Glu Gln Leu Gln Arg Leu  
 85 90 95  
 Glu Leu Ser Thr Asp Ile Gln Thr Ile Glu Leu Gln Ile Lys Lys Leu  
 100 105 110  
 Lys Glu Leu Gln Lys Ala Val Asp His Arg Lys Ala Ile Ile Leu Ser  
 115 120 125  
 Ile Asn Leu Cys Ser Pro Glu Phe Thr Gln Ala Asp Ser Lys Glu Ser  
 130 135 140  
 Arg Asp Leu Gln Asp Arg Leu Xaa Gln Met Asn Gly Arg Trp Asp Arg  
 145 150 155 160  
 Val Cys Ser Leu Leu Glu Glu Trp Arg Gly Leu Leu Gln Asp Ala Leu  
 165 170 175  
 Met Gln Cys Gln Gly Phe His Glu Met Ser His Gly Leu Leu Leu Met  
 180 185 190  
 Leu Glu Asn Ile Asp Arg Arg Lys Asn Glu Ile Val Pro Ile Asp Ser  
 195 200 205  
 Asn Leu Asp Ala Glu Ile Leu Gln Asp His His Lys Gln Leu Met Gln  
 210 215 220  
 Ile Lys His Glu Leu Leu Glu Ser Gln Leu Arg Val Ala Ser Leu Gln  
 225 230 235 240  
 Asp Met Ser Cys Gln Leu Leu Val Asn Ala Glu Gly Thr Asp Cys Leu  
 245 250 255  
 Glu Ala Lys Glu Lys Val His Val Ile Gly Asn Arg Leu Lys Leu Leu  
 260 265 270  
 Leu Lys Glu Val Ser Arg His Ile Lys Glu Leu Glu Lys Leu Leu Asp  
 275 280 285  
 Val Ser Ser Ser Gln Gln Asp Leu Ser Ser Trp Ser Ser Ala Asp Glu  
 290 295 300  
 Leu Asp Thr Ser Gly Ser Val Ser Pro Xaa Ser Gly Arg Ser Thr Pro  
 305 310 315 320  
 Asn Arg Gln Lys Thr Pro Arg Gly Lys Cys Ser Leu Ser Gln Pro Gly  
 325 330 335  
 Pro Ser Val Ser Ser Pro His Ser Arg Ser Thr Lys Gly Gly Ser Asp  
 340 345 350  
 Ser Ser Leu Ser Glu Pro Xaa Pro Gly Arg Ser Gly Arg Gly Phe Leu  
 355 360 365  
 Phe Arg Val Leu Arg Ala Ala Leu Pro Leu Gln Leu Leu Leu Leu

370

375

380

Leu Ile Gly Leu Ala Cys Leu Val Pro Met Ser Glu Glu Asp Tyr Ser  
 385 390 395 400

Cys Ala Leu Ser Asn Asn Phe Ala Arg Ser Phe His Pro Met Leu Arg  
 405 410 415

Tyr Thr Asn Gly Pro Pro Pro Leu  
 420

&lt;210&gt; 1080

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1080

Met Lys Leu Leu Gly Glu Cys Ser Ser Ser Ile Asp Ser Val Lys Arg  
 1 5 10 15

Leu Glu His Lys Leu Lys Glu Glu Glu Glu Ser Leu Pro Gly Phe Val  
 20 25 30

Asn Leu His Ser Thr Glu Thr Gln Thr Ala Gly Val Ile Asp Arg Trp  
 35 40 45

Glu Leu Leu Gln Ala Gln Ala Leu Ser Lys Glu Leu Arg Met Lys Gln  
 50 55 60

Asn Leu Gln Lys Trp Gln Gln Phe Asn Ser Asp Leu Asn Ser Ile Trp  
 65 70 75 80

Ala Trp Leu Gly Asp Thr Glu Glu Glu Leu Glu Gln Leu Gln Arg Leu  
 85 90 95

Glu Leu Ser Thr Asp Ile Gln Thr Ile Glu Leu Gln Ile Lys  
 100 105 110

&lt;210&gt; 1081

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1081

Lys Leu Lys Glu Leu Gln Lys Ala Val Asp His Arg Lys Ala Ile Ile  
 1 5 10 15

Leu Ser Ile Asn Leu Cys Ser Pro Glu Phe Thr Gln Ala Asp Ser Lys  
 20 25 30

Glu Ser Arg Asp Leu Gln Asp Arg Leu Xaa Gln Met Asn Gly Arg Trp

35                      40                      45  
 Asp Arg Val Cys Ser Leu Leu Glu Glu Trp Arg Gly Leu Leu Gln Asp  
     50                      55                      60  
 Ala Leu Met Gln Cys Gln Gly Phe His Glu Met Ser His Gly Leu Leu  
     65                      70                      75                      80  
 Leu Met Leu Glu Asn Ile Asp Arg Arg Lys Asn Glu Ile Val Pro Ile  
                     85                      90                      95  
 Asp Ser Asn Leu Asp Ala Glu Ile Leu Gln Asp His His Lys Gln Leu  
                     100                      105                      110  
 Met Gln Ile Lys His Glu Leu Leu Glu Ser Gln Leu Arg Val Ala Ser  
                     115                      120                      125  
 Leu Gln Asp Met Ser Cys Gln Leu  
     130                      135

<210> 1082

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1082

Gln Asp Met Ser Cys Gln Leu Leu Val Asn Ala Glu Gly Thr Asp Cys  
     1                      5                      10                      15  
 Leu Glu Ala Lys Glu Lys Val His Val Ile Gly Asn Arg Leu Lys Leu  
                     20                      25                      30  
 Leu Leu Lys Glu Val Ser Arg His Ile Lys Glu Leu Glu Lys Leu Leu  
                     35                      40                      45  
 Asp Val Ser Ser Ser Gln Gln Asp Leu Ser Ser Trp Ser Ser Ala Asp  
     50                      55                      60  
 Glu Leu Asp Thr Ser Gly Ser Val Ser Pro Xaa Ser Gly Arg Ser Thr  
     65                      70                      75                      80  
 Pro Asn Arg Gln Lys Thr Pro Arg Gly Lys Cys Ser Leu Ser Gln Pro  
                     85                      90                      95  
 Gly Pro Ser Val Ser Ser Pro His Ser  
                     100                      105

<210> 1083

<211> 73

<212> PRT

<213> Homo sapiens



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1083

Asp Ser Ser Leu Ser Glu Pro Xaa Pro Gly Arg Ser Gly Arg Gly Phe  
 1 5 10 15

Leu Phe Arg Val Leu Arg Ala Ala Leu Pro Leu Gln Leu Leu Leu Leu  
 20 25 30

Leu Leu Ile Gly Leu Ala Cys Leu Val Pro Met Ser Glu Glu Asp Tyr  
 35 40 45

Ser Cys Ala Leu Ser Asn Asn Phe Ala Arg Ser Phe His Pro Met Leu  
 50 55 60

Arg Tyr Thr Asn Gly Pro Pro Pro Leu  
 65 70

&lt;210&gt; 1084

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1084

Gln Arg Phe Leu Pro Pro Gly Ser Cys Xaa Leu Ile Arg Gly Pro Gln  
 1 5 10 15

Cys Pro Arg Val Thr Asp Pro Thr Thr Gly Gln Ser Leu Asp Asp Ser  
 20 25 30

Arg Phe Gln Ile Gln Gln Thr Glu Asn Ile Ile Arg Ser Lys Thr Pro  
 35 40 45

Thr Gly Pro Glu Leu Asp Thr Ser Tyr Lys Gly Tyr  
 50 55 60

&lt;210&gt; 1085

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1085

Ser Ile Ser Ala Ser Arg Leu Glu Ser Ile Gly Thr Ile Ser Phe Phe  
1 5 10 15

Leu Leu Ser Met Phe Ser Ser Ile Arg Ser Lys Pro Trp Leu Ile Ser  
20 25 30

Trp Lys Pro Trp His Cys Ile Arg Ala Ser Cys Ser Arg Pro Arg His  
35 40 45

Ser Ser Ser Arg Glu His Thr Arg Ser Gln Arg Pro Phe Ile Cys Xaa  
50 55 60

Lys Arg Ser Cys Arg Ser Arg Leu Ser Leu Leu Ser Ala Trp Val Asn  
65 70 75 80

Ser Gly Leu Gln Arg Leu Met Glu Arg Met Met Ala Leu Arg Trp Ser  
85 90 95

Thr Ala Phe Trp Ser Ser Leu Ser Phe Leu Ile Trp Ser Ser Met Val  
100 105 110

Trp Met Ser Val Leu Ser Ser Arg Arg Trp Ser Cys Ser Asn Ser Ser  
115 120 125

Ser Val Ser Pro Ser Gln Ala Gln Met Leu Phe Lys Ser Glu Leu Asn  
130 135 140

Cys Cys His Phe Trp Arg Phe Cys Phe Ile Leu Asn Ser Leu Leu Asn  
145 150 155 160

Ala Trp Ala Trp Arg Ser Ser His Arg Ser Ile Thr Pro Ala Val Trp  
165 170 175

Val Ser Val Leu Cys Arg Leu Thr Lys Pro Gly Arg Leu Ser Ser Ser  
180 185 190

Ser Phe Ser Leu Cys Ser Ser Leu Phe Thr Glu Ser Ile Leu Leu Leu  
195 200 205

His Ser Pro Ser Ser Phe Met  
210 215

<210> 1086

<211> 35

<212> PRT

<213> Homo sapiens

<400> 1086

Thr Ala Phe Trp Ser Ser Leu Ser Phe Leu Ile Trp Ser Ser Met Val  
1 5 10 15

Trp Met Ser Val Leu Ser Ser Arg Arg Trp Ser Cys Ser Asn Ser Ser  
20 25 30

Ser Val Ser  
35

<210> 1087  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 1087  
 Leu Leu Asn Ala Trp Ala Trp Arg Ser Ser His Arg Ser Ile Thr Pro  
           1                  5                  10                  15  
 Ala Val Trp Val Ser Val Leu Cys Arg Leu  
                   20                  25

<210> 1088  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1088  
 Leu Ala Arg His Val Leu Gln Arg Gly Tyr Ser Glu Leu Gly Phe Gln  
           1                  5                  10                  15  
 Gln Leu Met Leu Tyr Leu His Lys Leu Phe Val Met Val Leu Lys Tyr  
                   20                  25                  30  
 Leu Cys Ile Lys Val Arg Ile Asn Arg Asp Asn Phe Ile Phe Pro Ser  
                   35                  40                  45  
 Val Asn Val Leu Gln His Lys Lys Gln Thr Met Ala His Phe Met Glu  
           50                  55                  60  
 Thr Leu Ala Leu His Gln Gly Ile Leu Gln Gln Ala Pro Pro Leu Leu  
           65                  70                  75                  80  
 Gln Gln Arg Ala His Ser Val Pro Ala Pro Ile His Leu Xaa Gln Ala  
                   85                  90                  95  
 Ile Leu Gln Val Pro Ala Leu Leu Ala Val Ser Leu Gly Glu Leu Arg  
           100                  105                  110  
 Ala Ala Glu Ile Asp Gly Glu Asp Asp Gly Phe Ala Val Val His Ser  
           115                  120                  125  
 Phe Leu Glu Leu Leu Glu Leu Phe Asp Leu Glu Leu Asp Gly Leu Asp  
           130                  135                  140  
 Val Ser Ala Glu Phe Gln Thr Leu Glu Leu Phe Gln Leu Leu Leu Arg  
           145                  150                  155                  160  
 Val Pro Gln Pro Gly Pro Asp Ala Val Gln Val  
                   165                  170

<210> 1089  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 1089  
 Tyr Ser Glu Leu Gly Phe Gln Gln Leu Met Leu Tyr Leu His Lys Leu  
           1                  5                  10                  15  
 Phe Val Met Val Leu Lys Tyr Leu Cys Ile Lys Val  
                   20                  25

<210> 1090  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 1090  
 Val His Ser Phe Leu Glu Leu Leu Glu Leu Phe Asp Leu Glu Leu Asp  
           1                  5                  10                  15  
 Gly Leu Asp Val Ser Ala Glu Phe Gln Thr Leu Glu Leu  
                   20                  25

<210> 1091  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 1091  
 Ala Met Val Cys Phe Leu Cys Trp Arg Thr Leu Thr Glu Gly Lys  
           1                  5                  10                  15

<210> 1092  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1092  
 Gly Ala Gly Val Gly Thr Ala Met Pro Arg Val Pro Gln Ser Ala Gly  
           1                  5                  10                  15  
 Gly Ala Val Thr Trp Trp Gly Val Gly Leu Ser Gln Pro Ser Ser Val  
                   20                  25                  30

Gln Gly Gly Ala Arg Pro Gly Thr Val Pro Gly Thr Pro Gly Pro Leu  
           35                  40                  45

Pro Gly Leu Ser Pro Ala Pro Pro Pro Gln His Pro Pro Pro Leu Pro

50                      55                      60

Lys Leu Phe Leu Leu Cys Leu Ser Xaa Ser Leu Pro Gln Asp Phe Ser  
65                      70                      75                      80

Leu Leu Leu Cys Leu Ser Leu Asp Pro Cys Pro Ser Ser Thr Ser Asp  
85                      90                      95

Leu

<210> 1093  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 1093  
Gly Thr Val Pro Gly Thr Pro Gly Pro Leu Pro Gly Leu Ser Pro Ala  
1                      5                      10                      15

Pro Pro Pro Gln His Pro Pro Pro Leu Pro Lys Leu Phe Leu  
20                      25                      30

<210> 1094  
<211> 158  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1094  
Ala Pro Ser Arg Cys Arg Arg Ser Val Val Gln Val Pro Tyr Ser Ala  
1                      5                      10                      15

Phe Ser Ser Cys Ser Trp Thr Pro Thr Ala Leu Arg Arg Gly Val Leu  
20                      25                      30

Leu Tyr Ala Gly Leu Ser Thr Ser Ser Ala Ser Lys Ala Gln Gly Trp  
35                      40                      45

His Cys Leu Gly Leu Glu Tyr Pro Ser Gly Ala Ile Met Glu Val Arg  
50                      55                      60

Gly Arg Gly Gly Asp Arg Tyr Ala Gln Gly Pro Ser Lys Cys Trp Arg  
65                      70                      75                      80

Gly Cys Xaa Leu Val Gly Ser Gly Ser Val Thr Ala Ile Leu Cys Pro  
85                      90                      95

Gly Trp Gly Lys Ala Trp Asp Ser Ala Arg His Pro Arg Thr Pro Ser  
                   100                                  105                                  110

Arg Leu Val Ser Cys Ser Thr Ala Ser Thr Pro Pro Thr Pro Ala Gln  
                   115                                  120                                  125

Ala Val Ser Pro Leu Pro Leu Xaa Phe Pro Ala Pro Gly Leu Leu Ser  
                   130                                  135                                  140

Ser Pro Leu Pro Leu Leu Gly Pro Leu Pro Phe Leu Tyr Leu  
                   145                                  150                                  155

<210> 1095

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1095

Thr Ala Leu Arg Arg Gly Val Leu Leu Tyr Ala Gly Leu Ser Thr Ser  
                   1                                  5                                  10                                  15

Ser Ala Ser Lys Ala Gln Gly Trp His Cys Leu Gly Leu Glu Tyr Pro  
                                   20                                  25                                  30

Ser Gly Ala Ile Met  
                   35

<210> 1096

<211> 33

<212> PRT

<213> Homo sapiens

<400> 1096

Ala Ile Leu Cys Pro Gly Trp Gly Lys Ala Trp Asp Ser Ala Arg His  
                   1                                  5                                  10                                  15

Pro Arg Thr Pro Ser Arg Leu Val Ser Cys Ser Thr Ala Ser Thr Pro  
                                   20                                  25                                  30

Pro

<210> 1097

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1097

Pro Pro Val Phe Met Ala Ser His Arg Pro Xaa Gly Met Glu Pro Gly  
 1 5 10 15

Glu Trp Arg Phe Val Leu Val His Ile Ala Phe Xaa Cys Ala Trp Asp  
 20 25 30

Leu Val Cys Glu His Val Ser Val Cys Ser Gln Val Arg Gly Arg Gly  
 35 40 45

Arg Ala Gly Val Gln Gly Glu Ala Glu Glu Lys Arg Glu Val Leu Gly  
 50 55 60

Gln Gly Xaa Arg Glu Ala Glu Glu Lys Gln Leu Gly Gln Gly Trp Gly  
 65 70 75 80

Val Leu Arg Arg Trp Ser Arg Arg Gln Ala Trp Lys Gly Ser Trp Gly  
 85 90 95

Ala Trp His Cys Pro Arg Pro Cys Pro Thr Leu Asp Arg Gly Trp Leu  
 100 105 110

&lt;210&gt; 1098

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1098

His Val Ser Val Cys Ser Gln Val Arg Gly Arg Gly Arg Ala Gly Val  
 1 5 10 15

Gln Gly Glu Ala Glu Glu Lys Arg Glu Val Leu Gly Gln  
 20 25

&lt;210&gt; 1099

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1099

Met Lys Leu Leu Ile Cys Gly Asn Tyr Leu Ala Pro Ser His Ser Glu  
 1 5 10 15

Ser Ser Arg Arg Cys Cys Leu Leu Cys Phe Tyr Pro Leu Cys Leu Glu  
 20 25 30

Ile Asn Phe Gly Met Lys Val Phe Leu Ser Met Pro Phe Leu Val Leu  
 35 40 45

Phe Gln Ser Leu Ile Gln Glu Asp  
 50 55

<210> 1100

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1100

Phe Ser Ser Pro Gln Gly Leu Lys Phe Arg Ser Lys Ser Ser Leu Ala  
 1 5 10 15

Asn Tyr Leu His Lys Asn Gly Glu Thr Ser Leu Lys Pro Glu Asp Phe  
 20 25 30

Asp Phe Thr Val Leu Ser Lys Arg Gly Ile Lys Ser Arg Tyr Lys Asp  
 35 40 45

Cys Ser  
 50

<210> 1101

<211> 137

<212> PRT

<213> Homo sapiens

<400> 1101

Glu Leu Leu Cys Tyr Ile Cys Trp Lys Asn Thr Gly Leu Phe Ser Phe  
 1 5 10 15

Phe Leu Ser Val Phe Arg Gly Met Val Ser Ser Val Lys Ser Phe Leu  
 20 25 30

Val Gly Glu Gln Leu Leu Ser Ile Ser Glu Pro Arg Phe Lys Met Ser  
 35 40 45

Val Cys Lys Cys Ser Phe Leu Ser Thr Thr Ser Thr Phe Val Pro Ile  
 50 55 60

Ser Ser Asp Ser Lys Lys Val Ser Ser Tyr Phe Ser Leu Cys Ser Glu  
 65 70 75 80

Ser Leu Ala Glu Gln Asn Leu Phe Met Met Pro Glu Val Phe Cys Ser  
 85 90 95

Glu Gln Lys Phe Asp Pro Glu Leu Asn Asp Leu Ser Phe Phe Phe Thr  
 100 105 110

Arg Leu Phe Ser Ser Leu Val Thr Leu Arg Val Ser Pro His Ala Pro  
 115 120 125

Ala Ser Glu Met Gln Thr Val Leu Ser



130

135

<210> 1102  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 1102  
 Thr Phe Val Pro Ile Ser Ser Asp Ser Lys Lys Val Ser Ser Tyr Phe  
 1 5 10 15  
 Ser Leu Cys Ser Glu Ser Leu Ala Glu Gln Asn Leu Phe Met Met Pro  
 20 25 30  
 Glu Val Phe Cys  
 35

<210> 1103  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (231)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1103  
 Arg Ile Leu Leu Val Lys Tyr Ser Ala Asn Glu Glu Asn Lys Tyr Asp  
 1 5 10 15  
 Tyr Leu Pro Thr Thr Val Asn Val Cys Ser Glu Leu Val Lys Leu Val  
 20 25 30  
 Phe Cys Val Leu Val Ser Phe Cys Val Ile Lys Lys Asp His Gln Ser  
 35 40 45  
 Arg Asn Leu Lys Tyr Ala Ser Trp Lys Glu Phe Ser Asp Phe Met Lys  
 50 55 60  
 Trp Ser Ile Pro Ala Phe Leu Tyr Phe Leu Asp Asn Leu Ile Val Phe  
 65 70 75 80  
 Tyr Val Leu Ser Tyr Leu Gln Pro Ala Met Ala Val Ile Phe Ser Asn  
 85 90 95  
 Phe Ser Ile Ile Thr Thr Ala Leu Leu Phe Arg Ile Val Leu Lys Xaa  
 100 105 110  
 Arg Leu Asn Trp Ile Gln Trp Ala Ser Leu Leu Thr Leu Phe Leu Ser  
 115 120 125

Ile Val Ala Leu Thr Ala Gly Thr Lys Thr Leu Gln His Asn Leu Ala  
130 135 140

Gly Arg Gly Phe His His Asp Ala Phe Phe Ser Pro Ser Asn Ser Cys  
145 150 155 160

Leu Leu Phe Arg Asn Glu Cys Pro Arg Lys Asp Asn Cys Thr Ala Lys  
165 170 175

Glu Trp Thr Phe Pro Glu Ala Lys Trp Asn Thr Thr Ala Arg Val Phe  
180 185 190

Ser His Ile Arg Leu Gly Met Gly His Val Leu Ile Ile Val Gln Cys  
195 200 205

Phe Ile Ser Ser Met Ala Asn Ile Tyr Asn Glu Lys Ile Leu Lys Glu  
210 215 220

Gly Asn Gln Leu Thr Glu Xaa Ile Phe Ile Gln Asn Ser Lys Leu Tyr  
225 230 235 240

Phe Phe Gly Ile Leu Phe Asn Gly Leu Thr Leu Gly Leu Gln Arg Ser  
245 250 255

Asn Arg Asp Gln Ile Lys Asn Cys Gly Phe Phe Tyr Gly His Ser  
260 265 270

<210> 1104

<211> 30

<212> PRT

<213> Homo sapiens

<400> 1104

Thr Val Asn Val Cys Ser Glu Leu Val Lys Leu Val Phe Cys Val Leu  
1 5 10 15

Val Ser Phe Cys Val Ile Lys Lys Asp His Gln Ser Arg Asn  
20 25 30

<210> 1105

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1105

Leu Ile Val Phe Tyr Val Leu Ser Tyr Leu Gln Pro Ala Met Ala Val  
1 5 10 15

Ile Phe Ser Asn Phe Ser Ile Ile Thr Thr Ala Leu Leu Phe Arg  
20 25 30

<210> 1106

<211> 27

<212> PRT

<213> Homo sapiens

<400> 1106

Phe Phe Ser Pro Ser Asn Ser Cys Leu Leu Phe Arg Asn Glu Cys Pro  
1 5 10 15

Arg Lys Asp Asn Cys Thr Ala Lys Glu Trp Thr  
20 25

<210> 1107

<211> 28

<212> PRT

<213> Homo sapiens

<400> 1107

Tyr Phe Phe Gly Ile Leu Phe Asn Gly Leu Thr Leu Gly Leu Gln Arg  
1 5 10 15

Ser Asn Arg Asp Gln Ile Lys Asn Cys Gly Phe Phe  
20 25

<210> 1108

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1108

Asn Ser Val Pro Asn Leu Gln Thr Leu Ala Val Leu Thr Glu Ala Ile  
1 5 10 15

Gly Pro Glu Pro Ala Ile Pro Arg Xaa Pro Arg Glu Pro Pro Val Ala  
20 25 30

Thr Ser Thr Pro Ala Thr Pro Ser Ala Gly Pro Gln Pro Leu Pro Thr  
35 40 45

Gly Thr Val Leu Val Pro Gly Gly Pro Ala Pro Pro Cys Leu Gly Glu  
50 55 60

Ala Trp Ala Leu Leu Leu Pro Pro Cys Arg Pro Ser Leu Thr Ser Cys  
65 70 75 80

Phe Trp Ser Pro Arg Pro Ser Pro Trp Lys Glu Thr Gly Val  
85 90

<210> 1109

<211> 64

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1109

Val Thr Ala Gly Arg Val Gly Gly Gly Gly Pro Met Pro Pro Gln Gly  
 1 5 10 15

Lys Val Gly Gln Asp Pro Gln Gly Pro Ala Arg Ser Arg Leu Gly Gly  
 20 25 30

Ala Gly Ala Arg Gln Arg Val Trp Gln Val Trp Thr Trp Gln Gln Ala  
 35 40 45

Ala Pro Gly Gly Xaa Gly Gly Trp Arg Ala Leu Gly Gln Trp Pro Gln  
 50 55 60

&lt;210&gt; 1110

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1110

Ser Thr Pro Ala Thr Pro Ser Ala Gly Pro Gln Pro Leu Pro Thr Gly  
 1 5 10 15

Thr Val Leu Val Pro Gly Gly Pro Ala Pro  
 20 25

&lt;210&gt; 1111

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1111

Gln Asp Pro Gln Gly Pro Ala Arg Ser Arg Leu Gly Gly Ala Gly Ala  
 1 5 10 15

Arg Gln Arg

&lt;210&gt; 1112

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1112

Ala Leu Gln Leu Ala Phe Tyr Pro Asp Ala Val Glu Glu Trp Leu Glu  
 1 5 10 15

Glu Asn Val His Pro Ser Leu Gln Arg Leu Gln Xaa Leu Leu Gln Asp  
 20 25 30

Leu Ser Glu Val Ser Ala Pro Pro  
 35 40

&lt;210&gt; 1113

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1113

Cys His Pro Pro Ala Leu Ala Gly Thr Leu Leu Arg Thr Pro Glu Gly  
 1 5 10 15

Arg Ala His Ala Arg Gly Leu Leu Leu Glu Ala Gly Gly Ala  
 20 25 30

&lt;210&gt; 1114

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1114

Gly Ser Ser Ser Thr Arg Ser Trp Phe Ser Thr Ser Ser Pro Gln Arg  
 1 5 10 15

Ser Ala Ser Trp His Ser Gly Ala Pro Ser Cys Arg Ser Trp Arg Leu  
 20 25 30

Pro Cys Ser Trp Leu Ser Thr Arg Met Pro Trp Arg Ser Gly Trp Arg  
 35 40 45

Lys Thr Cys Thr Pro Ala Cys Ser Gly Cys Lys  
 50 55

&lt;210&gt; 1115

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1115

Ala Ser Thr Leu Gln Pro Ser Leu Ser Pro Ser Ser Pro Pro Leu Xaa  
 1 5 10 15

Pro Pro Val Glu Thr Ala Val Xaa Ser Arg Ala Leu Arg Arg Glu Gly  
 20 25 30

Ala Gly Ser Phe Pro Gly Ser Asn Ile Leu Ala Leu Val Thr Gln Val  
 35 40 45

Ser Leu His Leu Arg Ser Ser Val Asp Ala Leu Leu Glu Gly Asn Arg  
 50 55 60

Tyr Val Thr Gly Trp Phe Ser Pro Tyr His Arg Gln Arg Lys Leu Ile  
 65 70 75 80

His Pro Val

&lt;210&gt; 1116

&lt;211&gt; 292

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (256)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1116

Pro Leu Gly Pro Glu Lys Ala Gly Leu Ala Xaa Pro Leu Val Xaa His  
1 5 10 15

Ala Ala Arg Pro Cys Pro Ser Thr Ser Leu Gln Ser Gln Cys Ser Pro  
20 25 30

Ser Leu Xaa Xaa Glu Pro Xaa Xaa Pro Pro Arg Ser Xaa Val Ile Ser  
35 40 45

Gly Gly Phe Asp Glu Asp Val Lys Ala Lys Val Glu Asn Leu Leu Gly  
50 55 60

Ile Ser Ser Leu Glu Lys Thr Asp Pro Val Arg Gln Ala Pro Cys Ser  
65 70 75 80

Pro Pro Cys Pro Leu Leu Pro Leu Pro Phe Xaa Arg Pro Trp Arg Gln  
85 90 95

Leu Phe Ser Ala Gly Leu Ser Ala Gly Arg Gly Pro Ala Pro Ser Leu  
100 105 110

Ala Ala Thr Ser Leu Pro Leu Ser His Lys Ser Ala Ser Ile Cys Ala  
115 120 125

Ala Leu Trp Met Arg Cys Trp Arg Ala Thr Gly Met Ser Leu Ala Gly  
130 135 140

Ser Ala Pro Thr Thr Ala Ser Gly Ser Ser Ser Thr Arg Ser Trp Phe  
145 150 155 160

Ser Thr Ser Ser Pro Gln Arg Ser Ala Ser Trp His Ser Gly Ala Pro  
 165 170 175

Ser Cys Arg Ser Trp Arg Leu Pro Cys Ser Trp Leu Ser Thr Arg Met  
 180 185 190

Pro Trp Arg Ser Gly Trp Arg Lys Thr Cys Thr Pro Ala Cys Ser Gly  
 195 200 205

Cys Lys Leu Cys Cys Arg Thr Ser Ala Arg Cys Leu Pro Pro Arg Cys  
 210 215 220

His Pro Pro Ala Leu Ala Gly Thr Leu Leu Arg Thr Pro Glu Gly Arg  
 225 230 235 240

Ala His Ala Arg Gly Leu Leu Leu Glu Ala Gly Gly Ala Leu Xaa Xaa  
 245 250 255

Xaa Xaa Ala Trp Ala Ile Arg Pro Thr Trp Ala Ser Cys Pro Leu Ala  
 260 265 270

Gln Gln Cys Leu Ala His Thr Gln Phe Leu Arg Ala Leu Gly Ser Pro  
 275 280 285

Trp Gly Arg Asp  
 290

<210> 1117

<211> 235

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 1117

Phe Gln Glu Asp Leu Met Lys Met Leu Lys Arg Lys Trp Arg Thr Phe  
 1 5 10 15

Ser Gly Phe Pro Ala Trp Lys Lys Arg Thr Leu Leu Gly Lys His Pro  
 20 25 30

Ala Ala Leu Pro Val Pro Phe Phe Pro Ser Pro Ser Pro Ala Arg Gly  
 35 40 45

Asp Ser Cys Xaa Gln Gln Gly Ser Pro Gln Gly Gly Arg Leu Leu  
 50 55 60

Pro Trp Gln Gln His Pro Cys Pro Cys His Thr Ser Gln Pro Pro Ser  
 65 70 75 80

Ala Gln Leu Cys Gly Cys Ala Ala Gly Gly Gln Gln Val Cys His Trp  
 85 90 95

Leu Val Gln Pro Leu Pro Pro Pro Ala Glu Ala His Pro Pro Gly His  
 100 105 110

Gly Ser Ala His Pro Ala Arg Ser Ala Gln Pro Pro Gly Thr Val Glu  
 115 120 125

His Pro Arg Ala Gly Ala Gly Gly Cys Pro Ala Ala Gly Phe Leu Pro  
 130 135 140

Gly Cys Arg Gly Gly Val Ala Gly Gly Lys Arg Ala Pro Gln Pro Ala  
 145 150 155 160

Ala Ala Ala Xaa Ser Ala Ala Gly Pro Gln Arg Gly Val Cys Pro Pro  
 165 170 175

Ala Ala Thr His Gln Pro Trp Gln Gly Arg Cys Ser Gly Pro Leu Arg  
 180 185 190

Gly Glu Leu Met Pro Gly Gly Ser Cys Trp Arg Leu Gly Gly Leu Cys  
 195 200 205

Xaa Xaa Xaa Trp Pro Gly Gln Tyr Gly Pro Arg Gly Arg Arg Ala Leu  
 210 215 220

Trp Pro Ser Ser Val Leu Pro Thr Leu Ser Ser  
 225 230 235

&lt;210&gt; 1118

&lt;211&gt; 241

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (151)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE  
 <222> (197)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (198)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (202)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (203)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (207)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (227)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1118  
 Ala Leu Pro Ser Gly Val Leu Ser Asn Val Pro Ala Arg Ala Gly Gly  
   1                  5                  10                  15  
 Trp Gln Arg Gly Gly Arg His Leu Ala Glu Val Leu Gln Gln Ser Leu  
                   20                  25                  30  
 Gln Pro Leu Gln Ala Gly Val His Val Phe Leu Gln Pro Leu Leu His  
           35                  40                  45  
 Gly Ile Arg Val Glu Ser Gln Leu Gln Gly Ser Leu Gln Leu Leu His  
   50                  55                  60  
 Glu Gly Ala Pro Leu Cys Gln Glu Ala Glu Arg Cys Gly Leu Asp Val  
   65                  70                  75                  80  
 Leu Asn His Asp Arg Val Asp Glu Leu Pro Leu Ala Val Val Gly Ala  
                   85                  90                  95  
 Glu Pro Ala Ser Asp Ile Pro Val Ala Leu Gln Gln Arg Ile His Arg  
           100                  105                  110  
 Ala Ala Gln Met Glu Ala Asp Leu Cys Asp Lys Gly Lys Asp Val Ala  
   115                  120                  125

Ala Arg Glu Gly Ala Gly Pro Leu Pro Ala Glu Ser Pro Ala Glu Asn  
130 135 140

Ser Cys Leu His Gly Arg Xaa Lys Gly Arg Gly Arg Arg Gly Gln Gly  
145 150 155 160

Gly Leu Gln Gly Ala Cys Leu Thr Gly Ser Val Phe Ser Arg Leu Glu  
165 170 175

Ile Pro Arg Arg Phe Ser Thr Phe Ala Leu Thr Ser Ser Ser Asn Pro  
180 185 190

Pro Glu Ile Thr Xaa Xaa Arg Gly Gly Xaa Xaa Gly Ser Xaa Xaa Arg  
195 200 205

Glu Gly Leu His Trp Asp Cys Arg Leu Val Leu Gly His Gly Arg Ala  
210 215 220

Ala Trp Xaa Thr Asn Gly Gln Ala Asn Pro Ala Phe Ser Gly Pro Lys  
225 230 235 240

Gly

<210> 1119  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 1119  
Arg Gln Leu Phe Ser Ala Gly Leu Ser Ala Gly Arg Gly Pro Ala Pro  
1 5 10 15

Ser Leu Ala Ala Thr Ser Leu Pro Leu Ser His Lys Ser  
20 25

<210> 1120  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 1120  
Glu Leu Pro Leu Ala Val Val Gly Ala Glu Pro Ala Ser Asp Ile Pro  
1 5 10 15

Val Ala Leu Gln Gln Arg Ile His Arg Ala Ala Gln  
20 25

<210> 1121  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 1121

Gln Pro Pro Gly Thr Val Glu His Pro Arg Ala Gly Ala Gly Gly Cys  
 1 5 10 15

Pro Ala Ala Gly Phe Leu Pro Gly Cys Arg Gly  
 20 25

<210> 1122

<211> 17

<212> PRT

<213> Homo sapiens

<400> 1122

Ser Val Phe Glu Arg Thr Asn Glu Phe Arg Asp Val Leu Trp Ser Ser  
 1 5 10 15

Ile

<210> 1123

<211> 97

<212> PRT

<213> Homo sapiens

<400> 1123

Gly Val Val Gln Val Thr Phe Met Ser Ser Val Ser Arg Val Thr Trp  
 1 5 10 15

Gly Cys Gln Pro Ser Ile Cys Pro Gly Ala Pro Pro Ala Ala Ala Leu  
 20 25 30

Ala Gly Gly Leu Arg Leu Leu Phe Glu Arg Glu Leu Phe Gly Leu Pro  
 35 40 45

Val Ser Ser Pro Leu Ile Cys Ser Phe Leu Glu His His Pro Arg Thr  
 50 55 60

Ser Pro Pro Pro Ser Asp Cys Glu Leu Leu Glu Gly Arg Ser Cys Val  
 65 70 75 80

Leu Leu Phe Ile Phe Leu Ser Pro Glu Pro Cys Thr Asp Pro Gly Met  
 85 90 95

Trp

<210> 1124

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1124

Ser Lys Gln Ile His Ser Phe Val His Ser Phe Ile His Leu Phe Asn  
 1 5 10 15

Thr His Leu Leu Ser Thr Tyr His Ile Pro Gly Ser Val Gln Gly Ser

20

25

30

Gly Asp Arg Lys Met Asn Arg Arg Thr Gln Leu Leu Pro Ser Arg Ser  
 35 40 45

Ser Gln Ser Asp Gly Gly Gly Asp Val Leu Gly Trp Cys Ser Lys Lys  
 50 55 60

Glu Gln Ile Arg Gly Glu Glu Thr Gly Arg Pro Asn Ser Ser Leu Ser  
 65 70 75 80

Lys Arg Ser Leu Arg Pro Pro Ala Arg Ala Ala Gly Gly Ala Pro  
 85 90 95

Gly Gln Met Leu Gly  
 100

&lt;210&gt; 1125

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1125

Val Thr Trp Gly Cys Gln Pro Ser Ile Cys Pro Gly Ala Pro Pro Ala  
 1 5 10 15

Ala Ala Leu Ala Gly Gly Leu Arg Leu Leu Phe Glu  
 20 25

&lt;210&gt; 1126

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1126

Glu Gln Ile Arg Gly Glu Glu Thr Gly Arg Pro Asn Ser Ser Leu Ser  
 1 5 10 15

Lys Arg Ser Leu Arg Pro Pro  
 20

&lt;210&gt; 1127

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1127

Gln Trp Glu His Leu Leu Leu Leu Pro His Leu Leu Arg Gly Ala His  
 1 5 10 15

Arg Asp Pro Gly Asp Ile Leu Pro Leu Ala Pro Arg Ser Glu Cys Arg  
 20 25 30

Ala Asn Ser Ile Lys Glu Tyr Gln Lys Ser Ile Trp Lys Val Tyr Val  
 35 40 45

Val Arg Leu Arg Leu Leu Lys Pro Gln Pro Asn Ile Ile Pro Thr Val  
50 55 60

Lys Lys Ile Val Leu Leu Ala Gly Trp Ala Leu Phe Leu Phe Leu Ala  
65 70 75 80

Tyr Lys Val Ser Lys Thr Asp Arg Glu Tyr Gln Glu Tyr Asn Pro Tyr  
85 90 95

Glu Val Leu Asn Leu Asp Pro Gly Ala Thr Val Ala Glu Ile Lys Lys  
100 105 110

Gln Tyr Arg Leu Leu Ser Leu Lys Tyr His Pro Asp Lys Gly Gly Asp  
115 120 125

Glu Val  
130

<210> 1128

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1128

Glu Glu Arg Gly Gly Gly Gly Gly Ala Met Ala Gly Gln Gln Phe Gln  
1 5 10 15

Tyr Asp Asp Ser Gly Asn Thr Phe Phe Tyr Phe Leu Thr Ser Phe Val  
20 25 30

Gly Leu Ile Val Ile Pro Ala Thr Tyr Tyr Leu Trp Pro Arg Asp Gln  
35 40 45

Asn Ala Glu Gln Ile Arg Leu Lys Asn Ile Arg Lys Val Tyr Gly Arg  
50 55 60

Cys  
65

<210> 1129

<211> 220

<212> PRT

<213> Homo sapiens

<400> 1129

Arg Leu Tyr Thr Gly Cys Val Ile Phe Asp Leu Val Ser Asn Arg Ala  
1 5 10 15

Leu Ser Phe Arg Cys Met Leu Cys Cys Asn Ser Cys His Ser Ala Ser  
20 25 30

Ser Ser Leu Phe Cys Phe Ser Ser Cys Ser Leu Ser Glu Ser Leu Ser  
35 40 45

Leu Pro Ser Ser Phe Ser Leu Trp Glu Ser Leu Leu Val Ser Ser Ser

|   |     |     |     |     |
|---|-----|-----|-----|-----|
| 50  |     | 55  |     | 60  |
| Ser Glu Ser Leu Pro Leu Ser Glu Thr Ser Ser Ser Ser Phe Thr     |     |     |     |     |
| 65  |     | 70  | 75  | 80  |
| Ala Ala Ser Phe Pro Thr Thr Pro Phe Ala Cys Phe Cys Phe Cys Cys |     |     |     |     |
|   | 85  | 90  |     | 95  |
| Phe Asp Cys Gly Asn Ser Thr Gly Val Gly Phe Phe Phe Lys Gly Phe |     |     |     |     |
|   | 100 | 105 |     | 110 |
| Phe Phe Phe Asp Leu Ala Val Phe Leu Gly Pro Leu Leu Phe Cys Cys |     |     |     |     |
|   | 115 | 120 |     | 125 |
| His Pro Pro Phe Val Leu Phe Leu Leu Val Ser Pro Cys Pro Ser Ser |     |     |     |     |
|   | 130 | 135 | 140 |     |
| Ala Gly Cys Ser Ser Ala Ala Gln Met Asp Cys Ser Phe Ser Asn Thr |     |     |     |     |
|   | 145 | 150 | 155 | 160 |
| Ser Ala Ile Val Cys Leu Val Asn Leu Thr Asn Thr Val Thr Lys Asp |     |     |     |     |
|   | 165 | 170 |     | 175 |
| Pro Thr Val Met Leu Leu Leu Ser Ser Ser Ser Asn Thr Cys Asp Phe |     |     |     |     |
|   | 180 | 185 |     | 190 |
| Ile Ser Met Val Thr Tyr Gly Lys Leu Pro Arg Thr Ala Ile Thr Ser |     |     |     |     |
|   | 195 | 200 | 205 |     |
| Ser Tyr Phe Ser Ser Ser Arg Lys Cys Ser Arg Val                 |     |     |     |     |
|   | 210 | 215 | 220 |     |

&lt;210&gt; 1130

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1130

|   |
|---|
| Tyr Gln Lys Ser Ile Trp Lys Val Tyr Val Val Arg Leu Arg Leu Leu |
| 1 5 10 15   |

|   |
|---|
| Lys Pro Gln Pro Asn Ile Ile Pro Thr Val Lys Lys Ile Val Leu Leu |
| 20 25 30  |

|             |
|-------------|
| Ala Gly Trp |
| 35          |

&lt;210&gt; 1131

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1131

|   |
|---|
| Cys His Pro Pro Phe Val Leu Phe Leu Leu Val Ser Pro Cys Pro Ser |
| 1 5 10 15   |

Ser Ala Gly Cys Ser Ser Ala Ala Gln Met Asp Cys Ser Phe Ser Asn  
                   20                  25                  30

Thr Ser Ala  
           35

<210> 1132  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 1132  
 Gly Thr Ser Leu Asp Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg  
   1                  5                  10                  15

Gly Cys Arg Leu Arg Thr Pro Ser Ser Asp  
                   20                  25

<210> 1133  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1133  
 Gln Ile Gln Arg His Thr Arg Ala Pro Lys Gln Leu Ile Pro Leu Met  
   1                  5                  10                  15

Thr Pro Arg Arg Ser Leu Arg Asp His Pro Gln Ala Gln Thr Ser Arg  
                   20                  25                  30

Gln Thr Pro Arg Pro Ser Ser His Leu Val Phe Met Arg Met Thr Pro  
   35                  40                  45

Ser Ser Met Met Asn Thr Pro Ser Gly Asn Gly Gly Cys Trp Ser Gln  
   50                  55                  60

Leu Cys Cys Ser Ser Gln Ala Ser Ser Ser Ser Pro Val Ala Ser Ala  
   65                  70                  75                  80

Gly Ser Cys Pro Gly Tyr Ala Gly Ile Ile Ala Gly Glu Ser Ile Arg  
                   85                  90                  95

Asn Arg Ser

<210> 1134  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 1134  
 Pro Arg Arg Ser Leu Arg Asp His Pro Gln Ala Gln Thr Ser Arg Gln  
   1                  5                  10                  15

Thr Pro Arg Pro Ser Ser His Leu Val Phe Met



20

25

&lt;210&gt; 1135

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1135

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Pro | Pro | Glu | Thr | Gly | Ala | Val | Gly | Arg | Ser | Cys | Ala | Val | His |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Arg | His | His | His | Pro | His | Gln | Trp | Gln | Val | Gln | Ala | Ala | Val | Pro |
|     |     |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Met | Pro | Glu | Ser | Leu | Gln | Val | Ser | Pro | Ser | Glu | Thr | Gly | Ala | Asp |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     |     | 45  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Xaa | Leu | Gly | Thr | Arg | Arg | Pro | Ser | Pro | Leu | Pro | Ala | His | Arg | Ala |
|     |     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Pro | Pro | Ala | Ser | Pro | Arg | Arg | Ala | Trp | Pro | Glu | Arg | Glu | Asp | Thr |
|     | 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Asp | Glu | Ala | Gly | Ala | Arg | Ala | Ala | Gly | Pro | Ser | Leu | Leu | Pro | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Leu | Pro | Ala | Pro | Glu | Gly | Tyr | Leu | Ala | Pro | Trp | Gly | Leu | Ser |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Leu | Ser | Pro | Leu | Leu | Arg | Gln | Lys | Val | Lys | His | Cys | Gly | Leu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

Cys

&lt;210&gt; 1136

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1136

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Ser | Leu | Gln | Val | Ser | Pro | Ser | Glu | Thr | Gly | Ala | Asp | Asn | Xaa |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Thr | Arg | Arg | Pro | Ser | Pro | Leu | Pro | Ala | His | Arg | Ala | Gln | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |

Pro Ala Ser Pro  
35

<210> 1137  
<211> 79  
<212> PRT  
<213> Homo sapiens

<400> 1137  
Gly Thr Ala Pro Lys Ala Pro Gly Ser Leu Gln Gly Arg Ala Gly Leu  
1 5 10 15

Gly Glu Val Gly Asp Ser Asp Arg Gln Pro Trp Leu Gln Leu His His  
20 25 30

Leu Cys Leu Pro Ser Leu Ala Arg Leu Phe Glu Gly Met Gln Glu Ala  
35 40 45

Gly His Gly Glu Leu Ala Gly Gly Leu Val Phe Gly Cys Pro Ala Gly  
50 55 60

Cys Gln Leu Leu Phe Leu Met Asp Ser Pro Ala Met Ile Pro Ala  
65 70 75

<210> 1138  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 1138  
Gly Glu Val Gly Asp Ser Asp Arg Gln Pro Trp Leu Gln Leu His His  
1 5 10 15

Leu Cys Leu Pro Ser Leu Ala Arg Leu Phe Glu Gly Met Gln Glu Ala  
20 25 30

Gly His

<210> 1139  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 1139  
Gly Ser Gly Gly Leu Ser Gly Arg Leu Cys Leu Gly Met Val Ser Gln  
1 5 10 15

Arg Ala Ser Trp Cys His Gln Trp Asp Glu Leu Leu Trp Cys Ser Cys  
20 25 30

Val Ser Leu Asp Leu Ser Leu Glu Ala His Pro Phe Leu Pro Val Ala  
35 40 45

Gly Ser Gly Ser Gly Val Val Val Phe His Gln Gln Ala Arg Leu Gly  
50 55 60

Leu Glu Arg Trp Ala Gly Val Leu Cys Arg Leu His Leu Gly Leu Val  
65 70 75 80

Ser Gly Pro Glu Cys Pro  
85

<210> 1140

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1140

Gln Trp Asp Glu Leu Leu Trp Cys Ser Cys Val Ser Leu Asp Leu Ser  
1 5 10 15

Leu Glu Ala His Pro Phe Leu Pro Val Ala Gly Ser Gly Ser Gly Val  
20 25 30

Val Val Phe His Gln Gln Ala Arg Leu  
35 40

<210> 1141

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1141

Met Arg Pro Asp Trp Lys Ala Gly Ala Gly Pro Gly Gly Pro Pro Gln  
1 5 10 15

Lys Pro Ala Pro Ser Ser Gln Arg Lys Pro Pro Ala Arg Pro Ser Ala  
20 25 30

Ala Ala Ala Ala Ile Ala Val Ala Ala Ala Glu Glu Glu Arg Arg Leu  
35 40 45

Arg Gln Arg Asn Arg Leu Arg Leu Glu Glu Asp Lys Pro Ala Val Glu  
50 55 60

Arg Cys Leu Glu Glu Leu Val Phe Gly Asp Val Glu Asn Asp Glu Asp  
65 70 75 80

Ala Leu Leu Arg Arg Leu Arg Gly Pro Arg Val Gln Glu His Glu Asp  
85 90 95

Ser Gly Asp Ser Glu Val Glu Asn Glu Ala Lys Gly Asn Phe Pro Pro  
100 105 110

Gln Lys Lys Pro Val Trp Val Asp Glu Glu Asp Glu Asp Glu Glu Met  
115 120 125

Val Asp Met Met Asn Asn Arg Phe Arg Lys Asp Met Met Lys Asn Ala  
130 135 140

Ser Glu Ser Lys Leu Ser Lys Asp Asn Leu Lys Lys Arg Leu Lys Glu  
145 150 155 160

Glu Phe Gln His Ala Met Gly Gly Val Pro Ala Trp Ala Glu Thr Thr  
165 170 175

Lys Arg Lys Thr Ser Ser Asp Asp Glu Ser Glu Glu Asp Glu Asp Asp  
180 185 190

Leu Leu Gln Arg Thr Gly Asn Phe Ile Ser Thr Ser Thr Ser Leu Pro  
195 200 205

Arg Gly Ile Leu Lys Met Lys Asn Cys Gln His Ala Asn Ala Glu Arg  
210 215 220

Pro Thr Val Ala Arg Ile Ser Ile Cys Ala Val Pro Ser Arg Cys Thr  
225 230 235 240

Asp Cys Asp Gly Cys Trp Asp  
245

<210> 1142

<211> 180

<212> PRT

<213> Homo sapiens

<400> 1142

Cys Leu Glu Glu Leu Val Phe Gly Asp Val Glu Asn Asp Glu Asp Ala  
1 5 10 15

Leu Leu Arg Arg Leu Arg Gly Pro Arg Val Gln Glu His Glu Asp Ser  
20 25 30

Gly Asp Ser Glu Val Glu Asn Glu Ala Lys Gly Asn Phe Pro Pro Gln  
35 40 45

Lys Lys Pro Val Trp Val Asp Glu Glu Asp Glu Asp Glu Glu Met Val  
50 55 60

Asp Met Met Asn Asn Arg Phe Arg Lys Asp Met Met Lys Asn Ala Ser  
65 70 75 80

Glu Ser Lys Leu Ser Lys Asp Asn Leu Lys Lys Arg Leu Lys Glu Glu  
85 90 95

Phe Gln His Ala Met Gly Gly Val Pro Ala Trp Ala Glu Thr Thr Lys  
100 105 110

Arg Lys Thr Ser Ser Asp Asp Glu Ser Glu Glu Asp Glu Asp Asp Leu  
115 120 125

Leu Gln Arg Thr Gly Asn Phe Ile Ser Thr Ser Thr Ser Leu Pro Arg  
130 135 140

Gly Ile Leu Lys Met Lys Asn Cys Gln His Ala Asn Ala Glu Arg Pro  
145 150 155 160

Thr Val Ala Arg Ile Ser Ile Cys Ala Val Pro Ser Arg Cys Thr Asp  
 165 170 175

Cys Asp Gly Cys  
 180

<210> 1143

<211> 218

<212> PRT

<213> Homo sapiens

<400> 1143

Leu Lys Glu Lys Ile Val Arg Ser Phe Glu Val Ser Pro Asp Gly Ser  
 1 5 10 15

Phe Leu Leu Ile Asn Gly Ile Ala Gly Tyr Leu His Leu Leu Ala Met  
 20 25 30

Lys Thr Lys Glu Leu Ile Gly Ser Met Lys Ile Asn Gly Arg Val Ala  
 35 40 45

Ala Ser Thr Phe Ser Ser Asp Ser Lys Lys Val Tyr Ala Ser Ser Gly  
 50 55 60

Asp Gly Glu Val Tyr Val Trp Asp Val Asn Ser Arg Lys Cys Leu Asn  
 65 70 75 80

Arg Phe Val Asp Glu Gly Ser Leu Tyr Gly Leu Ser Ile Ala Thr Ser  
 85 90 95

Arg Asn Gly Gln Tyr Val Ala Cys Gly Ser Asn Cys Gly Val Val Asn  
 100 105 110

Ile Tyr Asn Gln Asp Ser Cys Leu Gln Glu Thr Asn Pro Lys Pro Ile  
 115 120 125

Lys Ala Ile Met Asn Leu Val Thr Gly Val Thr Ser Leu Thr Phe Asn  
 130 135 140

Pro Thr Thr Glu Ile Leu Ala Ile Ala Ser Glu Lys Met Lys Glu Ala  
 145 150 155 160

Val Arg Leu Val His Leu Pro Ser Cys Thr Val Phe Ser Asn Phe Pro  
 165 170 175

Val Ile Lys Asn Lys Asn Ile Ser His Val His Thr Met Asp Phe Ser  
 180 185 190

Pro Arg Ser Gly Tyr Phe Ala Leu Gly Asn Glu Lys Gly Lys Ala Leu  
 195 200 205

Met Tyr Arg Leu His His Tyr Ser Asp Phe  
 210 215

<210> 1144

<211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 1144

Lys Ile Asn Gly Arg Val Ala Ala Ser Thr Phe Ser Ser Asp Ser Lys  
 1 5 10 15

Lys Val Tyr Ala Ser Ser Gly Asp Gly Glu Val Tyr Val Trp Asp Val  
 20 25 30

Asn Ser Arg Lys Cys Leu Asn Arg Phe Val Asp Glu Gly Ser Leu Tyr  
 35 40 45

Gly Leu Ser Ile Ala Thr Ser Arg Asn Gly Gln Tyr Val Ala Cys Gly  
 50 55 60

Ser Asn Cys Gly Val Val Asn Ile Tyr Asn Gln Asp Ser Cys Leu Gln  
 65 70 75 80

Glu Thr Asn Pro Lys Pro Ile Lys Ala Ile Met Asn Leu Val Thr Gly  
 85 90 95

Val Thr Ser Leu Thr Phe Asn Pro Thr Thr Glu Ile Leu Ala Ile Ala  
 100 105 110

Ser Glu Lys Met Lys Glu Ala Val Arg Leu Val His Leu Pro Ser Cys  
 115 120 125

Thr Val Phe Ser Asn Phe Pro Val Ile Lys Asn Lys Asn Ile Ser His  
 130 135 140

Val His Thr Met Asp Phe Ser Pro Arg Ser Gly Tyr Phe Ala Leu Gly  
 145 150 155 160

Asn Glu Lys Gly Lys Ala Leu  
 165

<210> 1145

<211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1145

Trp Leu Leu Gly Leu Asp Asn Ala Val Ser Leu Phe Gln Val Asp Gly  
 1 5 10 15

Lys Thr Asn Pro Lys Ile Gln Ser Ile Tyr Leu Glu Arg Phe Pro Ile  
 20 25 30

Phe Lys Ala Cys Phe Ser Ala Asn Gly Glu Glu Val Leu Ala Thr Ser  
 35 40 45

Thr His Ser Lys Val Leu Tyr Val Tyr Asp  
 50 55

<210> 1146  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 1146  
 Leu Val Phe Gly Asp Val Glu Asn Asp Glu Asp Ala Leu Leu Arg Arg  
           1                  5                  10                  15  
 Leu Arg Gly Pro Arg Val Gln  
                   20

<210> 1147  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 1147  
 Lys Asn Ala Ser Glu Ser Lys Leu Ser Lys Asp Asn Leu Lys Lys Arg  
           1                  5                  10                  15  
 Leu Lys Glu Glu Phe Gln His Ala Met Gly Gly Val Pro  
                   20                  25

<210> 1148  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 1148  
 Ser Leu Pro Arg Gly Ile Leu Lys Met Lys Asn Cys Gln His Ala Asn  
           1                  5                  10                  15  
 Ala Glu Arg Pro Thr Val Ala  
                   20

<210> 1149  
 <211> 246  
 <212> PRT  
 <213> Homo sapiens

<400> 1149  
 Met Arg Ile Leu Gln Leu Ile Leu Leu Ala Leu Ala Thr Gly Leu Val  
           1                  5                  10                  15  
 Gly Gly Glu Thr Arg Ile Ile Lys Gly Phe Glu Cys Lys Leu His Ser  
                   20                  25                  30  
 Gln Pro Trp Gln Ala Ala Leu Phe Glu Lys Thr Arg Leu Leu Cys Gly  
           35                  40                  45  
 Ala Thr Leu Ile Ala Pro Arg Trp Leu Leu Thr Ala Ala His Cys Leu  
           50                  55                  60  
 Lys Pro Arg Tyr Ile Val His Leu Gly Gln His Asn Leu Gln Lys Glu

|   |  |     |  |     |  |     |
|---|--|-----|--|-----|--|-----|
| 65  |  | 70  |  | 75  |  | 80  |
| Glu Gly Cys Glu Gln Thr Arg Thr Ala Thr Glu Ser Phe Pro His Pro |  |     |  |     |  |     |
|   |  | 85  |  | 90  |  | 95  |
| Gly Phe Asn Asn Ser Leu Pro Asn Lys Asp His Arg Asn Asp Ile Met |  |     |  |     |  |     |
|   |  | 100 |  | 105 |  | 110 |
| Leu Val Lys Met Ala Ser Pro Val Ser Ile Thr Trp Ala Val Arg Pro |  |     |  |     |  |     |
|   |  | 115 |  | 120 |  | 125 |
| Leu Thr Leu Ser Ser Arg Cys Val Thr Ala Gly Thr Ser Cys Ser Phe |  |     |  |     |  |     |
|   |  | 130 |  | 135 |  | 140 |
| Pro Ala Gly Ala Ala Arg Pro Asp Pro Ser Tyr Ala Cys Leu Thr Pro |  |     |  |     |  |     |
|   |  | 145 |  | 150 |  | 155 |
| Cys Asp Ala Pro Thr Ser Pro Ser Leu Ser Thr Arg Ser Val Arg Thr |  |     |  |     |  |     |
|   |  | 165 |  | 170 |  | 175 |
| Pro Thr Pro Ala Thr Ser Gln Thr Pro Trp Cys Val Pro Ala Cys Arg |  |     |  |     |  |     |
|   |  | 180 |  | 185 |  | 190 |
| Lys Gly Ala Arg Thr Pro Ala Arg Val Thr Pro Gly Ala Leu Trp Ser |  |     |  |     |  |     |
|   |  | 195 |  | 200 |  | 205 |
| Val Thr Ser Leu Phe Lys Ala Leu Ser Pro Gly Ala Arg Ile Arg Val |  |     |  |     |  |     |
|   |  | 210 |  | 215 |  | 220 |
| Arg Ser Pro Glu Ser Leu Val Ser Thr Arg Lys Ser Ala Asn Met Trp |  |     |  |     |  |     |
|   |  | 225 |  | 230 |  | 235 |
| Thr Gly Ser Arg Arg Arg   |  |     |  |     |  |     |
|   |  | 245 |  |     |  |     |

&lt;210&gt; 1150

&lt;211&gt; 228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1150

|   |  |    |  |    |  |    |
|---|--|----|--|----|--|----|
| Glu Thr Arg Ile Ile Lys Gly Phe Glu Cys Lys Leu His Ser Gln Pro |  |    |  |    |  |    |
| 1   |  | 5  |  | 10 |  | 15 |
| Trp Gln Ala Ala Leu Phe Glu Lys Thr Arg Leu Leu Cys Gly Ala Thr |  |    |  |    |  |    |
|   |  | 20 |  | 25 |  | 30 |
| Leu Ile Ala Pro Arg Trp Leu Leu Thr Ala Ala His Cys Leu Lys Pro |  |    |  |    |  |    |
|   |  | 35 |  | 40 |  | 45 |
| Arg Tyr Ile Val His Leu Gly Gln His Asn Leu Gln Lys Glu Glu Gly |  |    |  |    |  |    |
|   |  | 50 |  | 55 |  | 60 |
| Cys Glu Gln Thr Arg Thr Ala Thr Glu Ser Phe Pro His Pro Gly Phe |  |    |  |    |  |    |
|   |  | 65 |  | 70 |  | 75 |
| Asn Asn Ser Leu Pro Asn Lys Asp His Arg Asn Asp Ile Met Leu Val |  |    |  |    |  |    |



| 85                 |     |     |     |     |     |     |     |     |     | 90  |     |     |     |     | 95  |  |  |  |  |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Lys                | Met | Ala | Ser | Pro | Val | Ser | Ile | Thr | Trp | Ala | Val | Arg | Pro | Leu | Thr |  |  |  |  |
|                    |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |  |  |
| Leu                | Ser | Ser | Arg | Cys | Val | Thr | Ala | Gly | Thr | Ser | Cys | Ser | Phe | Pro | Ala |  |  |  |  |
|                    |     | 115 |     |     |     |     | 120 |     |     |     | 125 |     |     |     |     |  |  |  |  |
| Gly                | Ala | Ala | Arg | Pro | Asp | Pro | Ser | Tyr | Ala | Cys | Leu | Thr | Pro | Cys | Asp |  |  |  |  |
|                    |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |  |  |  |
| Ala                | Pro | Thr | Ser | Pro | Ser | Leu | Ser | Thr | Arg | Ser | Val | Arg | Thr | Pro | Thr |  |  |  |  |
|                    | 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |  |  |  |  |
| Pro                | Ala | Thr | Ser | Gln | Thr | Pro | Trp | Cys | Val | Pro | Ala | Cys | Arg | Lys | Gly |  |  |  |  |
|                    |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |  |  |  |  |
| Ala                | Arg | Thr | Pro | Ala | Arg | Val | Thr | Pro | Gly | Ala | Leu | Trp | Ser | Val | Thr |  |  |  |  |
|                    |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |  |  |  |
| Ser                | Leu | Phe | Lys | Ala | Leu | Ser | Pro | Gly | Ala | Arg | Ile | Arg | Val | Arg | Ser |  |  |  |  |
|                    |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |  |  |  |
| Pro                | Glu | Ser | Leu | Val | Ser | Thr | Arg | Lys | Ser | Ala | Asn | Met | Trp | Thr | Gly |  |  |  |  |
|                    | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |  |  |
| Ser                | Arg | Arg | Arg |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|                    | 225 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| <210> 1151         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| <211> 74           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| <212> PRT          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| <213> Homo sapiens |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| <400> 1151         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| Cys                | Lys | Leu | His | Ser | Gln | Pro | Trp | Gln | Ala | Ala | Leu | Phe | Glu | Lys | Thr |  |  |  |  |
|                    | 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |  |  |  |  |
| Arg                | Leu | Leu | Cys | Gly | Ala | Thr | Leu | Ile | Ala | Pro | Arg | Trp | Leu | Leu | Thr |  |  |  |  |
|                    |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |  |  |
| Ala                | Ala | His | Cys | Leu | Lys | Pro | Arg | Tyr | Ile | Val | His | Leu | Gly | Gln | His |  |  |  |  |
|                    |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |  |  |  |
| Asn                | Leu | Gln | Lys | Glu | Glu | Gly | Cys | Glu | Gln | Thr | Arg | Thr | Ala | Thr | Glu |  |  |  |  |
|                    | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |  |  |  |
| Ser                | Phe | Pro | His | Pro | Gly | Phe | Asn | Asn | Ser |     |     |     |     |     |     |  |  |  |  |
|                    | 65  |     |     |     | 70  |     |     |     |     |     |     |     |     |     |     |  |  |  |  |

&lt;210&gt; 1152

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1152  
 Val Leu Gln Gly Arg Tyr Phe Ser Pro Ile Leu Glu Met Arg Arg Leu  
           1                  5                  10                  15

Arg Pro Glu Gly Xaa Xaa Asn Leu Pro Gly Gly Ser Arg Ala Gln Lys  
                   20                  25                  30

Glu Pro Arg Gln Asp Leu Thr Leu Val Leu Trp Pro His Cys Pro His  
                   35                  40                  45

Phe Ala Met Thr Arg Ser Tyr Val Pro Thr Lys Gln Cys Met Val Gln  
           50                  55                  60

Gly Ser Phe Tyr Cys Ile Phe Ile Phe Lys Gly Pro Val Gln Asn Trp  
           65                  70                  75                  80

Cys

<210> 1153  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 1153  
 Cys Pro Arg Arg Arg Thr Cys Val Arg Val Glu Lys Ser Arg Pro Phe  
           1                  5                  10                  15

Gln Cys Gln Leu His Ser Ile Ser  
                   20

<210> 1154  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 1154  
 Pro Lys Glu Pro Gly Val Pro Glu  
           1                  5

<210> 1155  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 1155

Leu Gln Leu Lys Pro Arg Asp Pro Phe Ser Thr Leu Gly Pro Asn Ala  
1 5 10 15

Val Leu Ser Pro Gln Arg Leu Val Leu Glu Thr Leu Ser Lys Leu Ser  
20 25 30

Ile Gln Asp Asn Asn Val Asp Leu Ile Leu Ala Thr Pro Pro Phe Ser  
35 40 45

Arg Leu Glu Lys Leu Tyr Ser Thr Met Val Arg Phe Leu Ser Asp Arg  
50 55 60

Lys Asn Pro Val Cys Arg Arg Trp Leu Trp Tyr Cys Trp Pro Thr Trp  
65 70 75 80

Leu Arg Gly Thr Ala Trp Gln Leu Val Pro Leu Gln Cys Arg Arg Ala  
85 90 95

Val Ser Ala Thr Ser Trp Ala Ser  
100

<210> 1156

<211> 27

<212> PRT

<213> Homo sapiens

<400> 1156

Arg Asp Pro Phe Ser Thr Leu Gly Pro Asn Ala Val Leu Ser Pro Gln  
1 5 10 15

Arg Leu Val Leu Glu Thr Leu Ser Lys Leu Ser  
20 25

<210> 1157

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1157

Glu Val Ile Ser Gly Leu Phe Ile Gln Ser Arg Arg Arg Glu Arg Gly  
1 5 10 15

Gln Gly Val Val Gly Ser His Met Ile Leu Trp Gly Lys Ser Leu Phe  
20 25 30

Phe Phe Ser Pro Gln Arg Leu Thr Lys Asn Ile Phe Lys Asn Tyr Ser  
35 40 45

Leu Leu Leu Thr Gln Arg Phe Leu Phe Pro Cys Glu Thr Leu Leu Leu  
50 55 60

Gln Tyr Val Tyr Ser Ile Arg Cys Thr Val Gln Tyr Met Lys Gly Ser  
65 70 75 80

Thr Leu Tyr Cys Thr Gly Leu Ser Ser Glu Gln Gly Leu Phe Thr Thr  
85 90 95

Ala Asn Phe Leu Ala Pro Ala Arg Leu  
100 105

<210> 1158  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 1158  
Ile Arg Cys Thr Val Gln Tyr Met Lys Gly Ser Thr Leu Tyr Cys Thr  
1 5 10 15

Gly Leu Ser Ser Glu Gln Gly  
20

<210> 1159  
<211> 211  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (153)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1159  
Met Pro Ile Ile Asp Gln Val Asn Pro Glu Leu His Asp Phe Met Gln  
1 5 10 15

Ser Ala Glu Val Gly Thr Ile Phe Ala Leu Ser Trp Leu Ile Thr Trp  
20 25 30

Phe Gly His Val Leu Ser Asp Phe Arg His Val Val Arg Leu Tyr Asp  
35 40 45

Phe Phe Leu Ala Cys His Pro Leu Met Pro Ile Tyr Phe Ala Ala Val  
50 55 60

Ile Val Leu Tyr Arg Glu Gln Glu Val Leu Asp Cys Asp Cys Asp Met  
65 70 75 80

Ala Ser Val His His Leu Leu Ser Gln Ile Pro Gln Asp Leu Pro Tyr  
85 90 95

Glu Thr Leu Ile Ser Arg Xaa Glu Thr Phe Leu Phe Ser Phe Pro His  
100 105 110

Pro Asn Leu Leu Gly Arg Pro Leu Pro Asn Ser Lys Leu Arg Gly Arg  
115 120 125

Gln Pro Leu Leu Ser Lys Thr Leu Ser Trp His Gln Pro Ser Arg Gly  
130 135 140

Leu Ile Trp Cys Cys Gly Ser Gly Xaa Arg Gly Leu Leu Arg Pro Glu  
145 150 155 160

Asp Arg Thr Lys Asp Val Leu Thr Lys Pro Arg Thr Asn Arg Phe Val  
165 170 175

Lys Leu Ala Val Met Gly Leu Thr Val Ala Leu Gly Ala Ala Ala Leu  
180 185 190

Ala Val Val Lys Ser Ala Leu Glu Trp Ala Pro Lys Phe Gln Leu Gln  
195 200 205

Leu Phe Pro  
210

<210> 1160

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1160

Cys Pro Glu Phe Phe Ile Pro Ala Thr Leu Pro Cys Pro Phe Val Phe  
1 5 10 15

Ala Phe Thr Ser Glu Ala Ser Ser Arg Ala Tyr Leu Thr Gln Arg Gly  
20 25 30

Pro Gly Gly Leu Ala Gln Asn Leu Met Pro Leu Pro Val Gly Phe Trp  
35 40 45

Met Gly Ser Leu Pro Pro Pro Trp Cys Trp Arg Lys Trp Val Ser Glu  
50 55 60

Ala Cys Ser Cys Phe Cys  
65 70

<210> 1161

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1161

Cys Arg Gln Ala Gly Ala Val Arg Gly His Pro Met Phe Gln Phe Thr  
1 5 10 15

Phe Tyr Gly Val Thr Xaa Arg Phe Pro Val Thr Arg Ala Ala Gln Ala  
20 25 30

Gln Gln Val Ala Lys Ala Ala Ala Ser Phe Arg Asn Pro Leu Pro Pro  
 35 40 45

Thr Pro Gly Arg Trp Gln Arg Ala His Pro Lys Ala His Trp Glu Arg  
 50 55 60

His Lys Ile Leu Cys Gln Ala Pro Arg Ser Pro Leu Cys Gln Val Gly  
 65 70 75 80

Ser Ala Thr Gly Leu  
 85

<210> 1162

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1162

His Ile Leu Asn Tyr Leu Met Pro Ile Ile Asp Gln Val Asn Pro Glu  
 1 5 10 15

Leu His Asp Phe Met Gln Ser Ala Glu Val Gly Thr Ile Phe Ala Leu  
 20 25 30

Ser Trp Leu Ile Thr Trp Phe Gly His Val Leu Ser Asp Phe Arg His  
 35 40 45

Val Val Arg Leu Tyr Asp Phe Phe Leu Ala Cys His Pro Leu Met Pro  
 50 55 60

Ile Tyr Phe Ala Ala Val Ile Val Leu Tyr Arg Glu Gln Glu Val Leu  
 65 70 75 80

Asp Cys Asp Cys Asp Met Ala Ser Val His His Leu Leu Ser Gln Ile  
 85 90 95

Pro Gln Asp Leu Pro Tyr Glu Thr Leu Ile Ser Arg Xaa Glu Thr Phe  
 100 105 110

Leu Phe Ser Phe Pro His Pro Asn Leu Leu Gly Arg Pro Leu Pro Asn  
 115 120 125

Ser Lys Leu Arg Gly Arg Gln Pro Leu Leu Ser Lys Thr Leu Ser Trp  
 130 135 140

His Gln Pro Ser Arg Gly Leu Ile Trp Cys Cys Gly Ser Gly Xaa Arg  
 145 150 155 160

Gly Leu Leu Arg Pro Glu Asp Arg Thr Lys Asp Val Leu Thr Lys Pro  
                             165                            170                            175

Arg Thr Asn Arg Phe Val Lys Leu Ala Val Met Gly Leu Thr Val Ala  
                             180                            185                            190

Leu Gly Ala Ala Ala Leu Ala Val Val Lys Ser Ala Leu Glu Trp Ala  
                             195                            200                            205

Pro Lys Phe Gln Leu Gln Leu Phe Pro  
                             210                            215

<210> 1163

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1163

Ala Glu Val Gly Thr Ile Phe Ala Leu Ser Trp Leu Ile Thr Trp Phe  
                             1                            5                            10                            15

Gly His Val Leu Ser Asp Phe Arg His Val Val Arg Leu Tyr Asp  
                             20                            25                            30

<210> 1164

<211> 33

<212> PRT

<213> Homo sapiens

<400> 1164

Val Leu Thr Lys Pro Arg Thr Asn Arg Phe Val Lys Leu Ala Val Met  
                             1                            5                            10                            15

Gly Leu Thr Val Ala Leu Gly Ala Ala Ala Leu Ala Val Val Lys Ser  
                             20                            25                            30

Ala

<210> 1165

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1165

Gly Phe Gly Ser Val Ser Ala Ala Gly Arg Arg Ser Gly Gly Thr Trp  
                             1                            5                            10                            15

Gln Pro Val Gln  
                             20

<210> 1166

<211> 16

<212> PRT  
 <213> Homo sapiens

<400> 1166  
 Pro Gly Gly Leu Ala Val Gly Ser Arg Trp Trp Ser Arg Ser Leu Thr  
           1                  5                  10                  15

<210> 1167  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 1167  
 Leu Glu Pro Ser Arg Gln Arg Arg Pro Arg Arg Arg Gly Gly Thr Ser  
           1                  5                  10                  15

Arg Pro Glu Thr Asp Gln Arg Ala Lys Cys Trp Arg Gln Leu  
                   20                  25                  30

<210> 1168  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 1168  
 Val Cys Leu Arg Cys Gln Asn Arg Met Glu Asn  
           1                  5                  10

<210> 1169  
 <211> 367  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1169  
 Met Ala Ala Cys Thr Ala Arg Arg Pro Gly Arg Gly Gln Pro Leu Val  
           1                  5                  10                  15



Val Pro Val Ala Asp Xaa Gly Pro Val Ala Lys Ala Ala Leu Cys Ala  
 20 25 30  
 Ala Xaa Ala Gly Ala Phe Ser Pro Ala Ser Thr Thr Thr Thr Arg Arg  
 35 40 45  
 His Leu Ser Ser Arg Asn Arg Pro Glu Gly Lys Val Leu Glu Thr Val  
 50 55 60  
 Gly Val Phe Glu Val Pro Lys Gln Asn Gly Lys Tyr Glu Thr Gly Gln  
 65 70 75 80  
 Leu Phe Leu His Ser Ile Phe Gly Tyr Arg Gly Val Val Leu Phe Pro  
 85 90 95  
 Trp Gln Ala Arg Leu Xaa Asp Arg Asp Val Ala Ser Ala Ala Pro Glu  
 100 105 110  
 Lys Ala Glu Asn Pro Ala Gly His Gly Ser Lys Glu Val Lys Gly Lys  
 115 120 125  
 Thr His Thr Tyr Tyr Gln Val Leu Ile Asp Ala Arg Asp Cys Pro His  
 130 135 140  
 Ile Ser Gln Arg Ser Gln Thr Glu Ala Val Thr Phe Leu Ala Asn His  
 145 150 155 160  
 Asp Asp Ser Arg Ala Leu Tyr Ala Ile Pro Gly Leu Asp Tyr Val Ser  
 165 170 175  
 His Glu Asp Ile Leu Pro Tyr Thr Ser Thr Asp Gln Val Pro Ile Gln  
 180 185 190  
 His Glu Leu Phe Glu Arg Phe Leu Leu Tyr Asp Gln Thr Lys Ala Pro  
 195 200 205  
 Pro Phe Val Ala Arg Glu Thr Leu Arg Ala Trp Gln Glu Lys Asn His  
 210 215 220  
 Pro Trp Leu Glu Leu Ser Asp Val His Arg Glu Thr Thr Glu Asn Ile  
 225 230 235 240  
 Arg Val Thr Val Ile Pro Phe Tyr Met Gly Met Arg Glu Ala Gln Asn  
 245 250 255  
 Ser His Val Tyr Trp Trp Arg Tyr Cys Ile Arg Leu Glu Asn Leu Asp  
 260 265 270  
 Ser Asp Val Val Gln Leu Arg Glu Arg His Trp Arg Ile Phe Ser Leu  
 275 280 285  
 Ser Gly Thr Leu Glu Thr Val Arg Gly Arg Gly Val Val Gly Arg Glu  
 290 295 300  
 Pro Val Leu Ser Lys Glu Gln Pro Ala Phe Gln Tyr Ser Ser His Val  
 305 310 315 320  
 Ser Leu Gln Ala Ser Ser Gly His Met Trp Gly Thr Phe Arg Phe Glu

325

330

335

Arg Pro Asp Gly Ser His Phe Asp Val Arg Ile Pro Pro Phe Ser Leu  
 340 345 350

Glu Ser Asn Lys Asp Glu Lys Thr Pro Pro Ser Gly Leu His Trp  
 355 360 365

&lt;210&gt; 1170

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1170

Met Ala Ala Cys Thr Ala Arg Arg Pro Gly Arg Gly Gln Pro Leu Val  
 1 5 10 15

Val Pro Val Ala Asp Xaa Gly Pro Val Ala Lys Ala Ala Leu Cys Ala  
 20 25 30

Ala

&lt;210&gt; 1171

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1171

Met Ala Ala Cys Thr Ala Arg Arg Pro Gly Arg Gly Gln Pro Leu Val  
 1 5 10 15

Val Pro Val Ala Asp Xaa Gly Pro Val Ala Lys Ala Ala Leu Cys Ala  
 20 25 30

Ala

&lt;210&gt; 1172

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1172

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Cys | Thr | Ala | Arg | Arg | Pro | Gly | Arg | Gly | Gln | Pro | Leu | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Val | Ala | Asp | Xaa | Gly | Pro | Val | Ala | Lys | Ala | Ala | Leu | Cys | Ala |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |     |

Ala

&lt;210&gt; 1173

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1173

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Cys | Thr | Ala | Arg | Arg | Pro | Gly | Arg | Gly | Gln | Pro | Leu | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Val | Ala | Asp | Xaa | Gly | Pro | Val | Ala | Lys | Ala | Ala | Leu | Cys | Ala |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |     |

Ala

&lt;210&gt; 1174

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1174

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Cys | Thr | Ala | Arg | Arg | Pro | Gly | Arg | Gly | Gln | Pro | Leu | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Val | Ala | Asp | Xaa | Gly | Pro | Val | Ala | Lys | Ala | Ala | Leu | Cys | Ala |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |     |

Ala

&lt;210&gt; 1175

&lt;211&gt; 35

<212> PRT  
 <213> Homo sapiens

<400> 1175  
 Val Leu Glu Thr Val Gly Val Phe Glu Val Pro Lys Gln Asn Gly Lys  
     1                    5                    10                    15  
 Tyr Glu Thr Gly Gln Leu Phe Leu His Ser Ile Phe Gly Tyr Arg Gly  
                     20                    25                    30  
 Val Val Leu  
             35

<210> 1176  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1176  
 Gly Leu Asp Tyr Val Ser His Glu Asp Ile Leu Pro Tyr Thr Ser Thr  
     1                    5                    10                    15

<210> 1177  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 1177  
 Asp Val His Arg Glu Thr Thr Glu Asn Ile Arg Val Thr Val Ile Pro  
     1                    5                    10                    15

Phe Tyr Met

<210> 1178  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 1178  
 Trp Trp Arg Tyr Cys Ile Arg Leu Glu Asn Leu Asp Ser Asp Val Val  
     1                    5                    10                    15

Gln Leu Arg Glu Arg  
             20

<210> 1179  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1179

Pro Ala Phe Gln Tyr Ser Ser His Val Ser Leu Gln Ala Ser Ser Gly  
 1 5 10 15

His Met Trp Gly Thr Phe Arg Phe Glu Arg  
 20 25

&lt;210&gt; 1180

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (114)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (182)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (194)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1180

Arg Leu Pro Ser His Lys Arg Arg Cys Phe Cys Leu Val Ile Gln Lys  
 1 5 10 15

Lys Ser Phe Lys Glu Phe Met Leu Asp Gly Asn Leu Ile Ser Gly Gly  
 20 25 30

Val Gly Glu Asp Val Phe Met Ala Asp Ile Val Gln Ala Trp Asp Gly  
 35 40 45

Ile Glu Gly Pro Thr Val Ile Met Val Ser Gln Glu Gly His Ser Phe  
 50 55 60

Cys Leu Arg Ser Leu Arg Tyr Met Trp Ala Val Thr Ser Ile Asn Gln  
 65 70 75 80

His Leu Ile Val Ser Val Ser Phe Ala Phe His Leu Leu Gly Ala Met  
 85 90 95

Ala Ser Arg Val Leu Cys Phe Phe Trp Ser Cys Arg Ser His Ile Pro  
 100 105 110

Val Xaa Gln Ser Gly Leu Pro Gly Lys Gln Asp Asp Thr Ser Val Ala  
 115 120 125

Lys Asn Ala Met Lys Glu Lys Leu Pro Gly Leu Ile Phe Ser Ile Leu  
 130 135 140

Phe Trp His Leu Lys His Thr Asn Cys Leu Gln His Phe Ala Leu Trp  
 145 150 155 160

Ser Val Ser Gly Arg Glu Val Pro Pro Arg Arg Arg Gly Arg Arg Trp  
                     165                    170                    175

Arg Glu Gly Ser Ser Xaa Gly Arg Ala Gln Ser Gly Leu Gly His Arg  
                     180                    185                    190

Ala Xaa Val Ser Asp Arg Asp His Gln Arg Leu Pro Thr Ala Arg Pro  
                     195                    200                    205

Pro Gly Cys Thr Gly Cys His Val Pro Pro Glu Arg Arg Pro Ala Ala  
                     210                    215                    220

Asp Thr Glu Pro Asn Pro  
                     225                    230

<210> 1181

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1181

Lys Glu Phe Met Leu Asp Gly Asn Leu Ile Ser Gly Gly Val Gly Glu  
                     1                    5                    10                    15

Asp Val Phe Met Ala Asp Ile Val Gln Ala Trp Asp Gly Ile Glu  
                     20                    25                    30

<210> 1182

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1182

Ala Val Thr Ser Ile Asn Gln His Leu Ile Val Ser Val Ser Phe Ala  
                     1                    5                    10                    15

Phe His Leu Leu Gly Ala Met Ala Ser Arg Val Leu Cys  
                     20                    25

<210> 1183

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1183

Thr Ala Arg Pro Pro Gly Cys Thr Gly Cys His Val Pro Pro Glu Arg  
                     1                    5                    10                    15

Arg Pro Ala Ala  
                     20

<210> 1184

<211> 11

<212> PRT  
 <213> Homo sapiens

<400> 1184  
 Ser Leu Cys Cys Pro Glu Gly Ala Glu Gly Cys  
           1                          5                          10

<210> 1185  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 1185  
 Gln Leu Lys Lys Thr His Tyr Asp Arg Pro Cys Pro  
           1                          5                          10

<210> 1186  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 1186  
 Gln Leu Lys Lys Thr His Tyr Asp Arg Pro Cys Pro  
           1                          5                          10

<210> 1187  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 1187  
 Met Asn Arg Pro Cys Pro Phe Cys Leu Trp Lys Val Phe Pro Leu Leu  
           1                          5                          10                          15

Leu Leu Leu His Glu Glu Leu Phe Pro Leu Pro Val Pro  
                           20                          25

<210> 1188  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 1188  
 Lys Glu Lys Thr Phe Thr Pro Arg Asn Ser Leu Cys Cys Pro Glu Gly  
           1                          5                          10                          15

Ala Glu Gly Cys Ile Ala Gly Gly Asp Leu Gln Leu Lys Lys Thr His  
                           20                          25                          30

Tyr

<210> 1189

<211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 1189

Ala Gln Arg Lys Lys Glu Met Val Leu Ser Glu Lys Val Ser Gln Leu  
 1 5 10 15

Met Glu Trp Thr Asn Lys Arg Pro Val Ile Arg Met Asn Gly Asp Lys  
 20 25 30

Phe Arg Arg Leu Val Lys Ala Pro Pro Arg Asn Tyr Ser Val Ile Val  
 35 40 45

Met Phe Thr Ala Leu Gln Leu His Arg Gln Cys Val Val Cys Lys Gln  
 50 55 60

Ala Asp Glu Glu Phe Gln Ile Leu Ala Asn Ser Trp Arg Tyr Ser Ser  
 65 70 75 80

Ala Phe Thr Asn Arg Ile Phe Phe Ala Met Val Asp Phe Asp Glu Gly  
 85 90 95

Ser Asp Val Phe Gln Met Leu Asn Met Asn Ser Ala Pro Thr Phe Ile  
 100 105 110

Asn Phe Pro Ala Lys Gly Lys Pro Lys Arg Gly Asp Thr Tyr Glu Leu  
 115 120 125

Gln Val Arg Gly Phe Ser Ala Glu Gln Ile Ala Arg Trp Ile Ala Asp  
 130 135 140

Arg Thr Asp Val Asn Ile Arg Val Ile Arg Pro Pro Asn Met Ala Ala  
 145 150 155 160

Arg Trp Arg Phe Trp Cys Val Ser Val Thr  
 165 170

<210> 1190  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 1190

Met Val Val Ala Leu Leu Ile Val Cys Asp Val Pro Ser Ala Ser  
 1 5 10 15

<210> 1191  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1191

Ala Gln Arg Lys Lys Glu Met Val Leu Ser Glu Lys Val Ser Gln Leu  
 1 5 10 15



<210> 1192  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 1192  
 Met Glu Trp Thr Asn Lys Arg Pro Val Ile Arg Met Asn Gly Asp Lys  
 1 5 10 15

Phe

<210> 1193  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1193  
 Arg Arg Leu Val Lys Ala Pro Pro Arg Asn Tyr Ser Val Ile Val Met  
 1 5 10 15

Phe Thr Ala Leu Gln Leu His Arg Gln Cys Val Val Cys Lys Gln Ala  
 20 25 30

Asp Glu Glu Phe Gln Ile Leu Ala Asn Ser Trp Arg Tyr Ser Ser Ala  
 35 40 45

Phe Thr Asn Arg Ile Phe Phe Ala  
 50 55

<210> 1194  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 1194  
 Met Val Asp Phe Asp Glu Gly Ser Asp Val Phe Gln Met Leu Asn Met  
 1 5 10 15

Asn Ser Ala Pro Thr Phe Ile Asn Phe Pro Ala Lys Gly Lys Pro  
 20 25 30

<210> 1195  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 1195  
 Lys Arg Gly Asp Thr Tyr Glu Leu Gln Val Arg Gly Phe Ser Ala Glu  
 1 5 10 15

Gln Ile Ala Arg Trp Ile Ala Asp Arg Thr Asp Val Asn Ile Arg Val  
                   20                  25                  30

Ile Arg Pro Pro Asn  
                   35

<210> 1196  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 1196  
 Tyr Ala Gly Pro Leu Met Leu Gly Leu Leu Leu Ala Val Ile Gly Gly  
   1                  5                  10                  15

Leu Val Tyr Leu Arg Arg Val Ile Trp Asn Phe Ser Leu Ile Lys Leu  
                   20                  25                  30

Asp Gly Leu Leu Gln Leu Cys Val Leu Cys Leu Leu  
                   35                  40

<210> 1197  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 1197  
 Asp Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp  
   1                  5                  10                  15

Ser

<210> 1198  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1198  
 Cys Gln Glu Gly Ala Lys Asp Met Trp Asp Lys Leu Arg Lys Glu Ser  
   1                  5                  10                  15

Lys Asn Leu Asn  
                   20

<210> 1199  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1199  
 Val Leu Leu Val Ser Leu Ser Ala Ala Leu Ala Thr Trp Leu Ser Phe  
   1                  5                  10                  15

<210> 1200  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1200  
 Met Gly Leu Lys Leu Asn Gly Arg Tyr Ile Ser Leu Ile Leu Ala Val  
   1                  5                  10                  15  
 Gln Ile Ala Tyr Leu Val Gln Ala Val Arg Ala Ala Gly Lys Cys Asp  
           20                  25                  30  
 Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp Ser  
       35                  40                  45

<210> 1201  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 1201  
 Pro Ala Ala Trp Asp Asp Lys Thr Asn Ile Lys Thr Val Cys Thr Tyr  
   1                  5                  10                  15  
 Trp Glu Asp Phe His Ser Cys Thr Val Thr Ala Leu Thr Asp Cys Gln  
           20                  25                  30  
 Glu Gly Ala Lys Asp Met Trp Asp Lys Leu Arg Lys Glu Ser Lys Asn  
       35                  40                  45  
 Leu Asn Ile Gln Gly Ser Leu Phe Glu Leu Cys Gly Ser Gly Asn Gly  
       50                  55                  60  
 Ala Ala Gly Ser Leu Leu Pro Ala Phe Pro Val Leu Leu Val Ser Leu  
       65                  70                  75                  80  
 Ser Ala Ala Leu Ala Thr Trp Leu Ser Phe  
           85                  90

<210> 1202  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1202  
 Met Gly Leu Lys Leu Asn Gly Arg Tyr Ile Ser Leu Ile Leu Ala Val  
   1                  5                  10                  15  
 Gln Ile Ala Tyr Leu Val Gln Ala Val Arg Ala Ala Gly Lys Cys Asp  
           20                  25                  30  
 Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp Ser  
           35                  40                  45  
 Xaa Xaa Xaa Xaa Xaa Pro Ala Ala Trp Asp Asp Lys Thr Asn Ile Lys  
   50                  55                  60  
 Thr Val Cys Thr Tyr Trp Glu Asp Phe His Ser Cys Thr Val Thr Ala  
   65                  70                  75                  80  
 Leu Thr Asp Cys Gln Glu Gly Ala Lys Asp Met Trp Asp Lys Leu Arg  
           85                  90                  95  
 Lys Glu Ser Lys Asn Leu Asn Ile Gln Gly Ser Leu Phe Glu Leu Cys  
          100                 105                 110  
 Gly Ser Gly Asn Gly Ala Ala Gly Ser Leu Leu Pro Ala Phe Pro Val  
          115                 120                 125  
 Leu Leu Val Ser Leu Ser Ala Ala Leu Ala Thr Trp Leu Ser Phe  
          130                 135                 140

<210> 1203  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 1203  
 Met Asn Ser Ala Ala Gly Phe Ser His Leu Asp Arg Arg Glu Arg Val  
   1                  5                  10                  15

Leu Lys Leu Gly Glu Ser Phe Glu Lys Gln Pro Arg Cys Ala Ser Thr  
                   20                  25                  30

Leu Cys

<210> 1204

<211> 28

<212> PRT

<213> Homo sapiens

<400> 1204

Thr Ile Tyr Pro Thr Glu Glu Glu Leu Gln Ala Val Gln Lys Ile Val  
   1                  5                  10                  15

Ser Ile Thr Glu Arg Ala Leu Lys Leu Val Ser Asp  
                   20                  25

<210> 1205

<211> 30

<212> PRT

<213> Homo sapiens

<400> 1205

Arg Ala Leu Lys Gly Val Leu Arg Val Gly Val Leu Ala Lys Gly Leu  
   1                  5                  10                  15

Leu Leu Arg Gly Asp Arg Asn Val Asn Leu Val Leu Leu Cys  
                   20                  25                  30

<210> 1206

<211> 39

<212> PRT

<213> Homo sapiens

<400> 1206

Ala Leu Ala Ala Leu Arg His Ala Lys Trp Phe Gln Ala Arg Ala Asn  
   1                  5                  10                  15

Gly Leu Gln Ser Cys Val Ile Ile Ile Arg Ile Leu Arg Asp Leu Cys  
                   20                  25                  30

Gln Arg Val Pro Thr Trp Ser  
                   35

<210> 1207

<211> 17

<212> PRT

<213> Homo sapiens

<400> 1207

Gly Asp Ala Leu Arg Arg Val Phe Glu Cys Ile Ser Ser Gly Ile Ile  
   1                  5                  10                  15

Leu

&lt;210&gt; 1208

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1208

Leu Ala Phe Arg Gln Ile His Lys Val Leu Gly Met Asp Pro Leu Pro  
 1 5 10 15

&lt;210&gt; 1209

&lt;211&gt; 342

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1209

Thr Ile Tyr Pro Thr Glu Glu Glu Leu Gln Ala Val Gln Lys Ile Val  
 1 5 10 15

Ser Ile Thr Glu Arg Ala Leu Lys Leu Val Ser Asp Ser Leu Ser Glu  
 20 25 30

His Glu Lys Asn Lys Asn Lys Glu Gly Asp Asp Lys Lys Glu Gly Gly  
 35 40 45

Lys Asp Arg Ala Leu Lys Gly Val Leu Arg Val Gly Val Leu Ala Lys  
 50 55 60

Gly Leu Leu Leu Arg Gly Asp Arg Asn Val Asn Leu Val Leu Leu Cys  
 65 70 75 80

Ser Glu Lys Pro Ser Lys Thr Leu Leu Ser Arg Ile Ala Glu Asn Leu  
 85 90 95

Pro Lys Gln Leu Ala Val Ile Ser Pro Glu Lys Tyr Asp Ile Lys Cys  
 100 105 110

Ala Val Ser Glu Ala Ala Ile Ile Leu Asn Ser Cys Val Glu Pro Lys  
 115 120 125

Met Gln Val Thr Ile Thr Leu Thr Ser Pro Ile Ile Arg Glu Glu Asn  
 130 135 140

Met Arg Glu Gly Asp Val Thr Ser Gly Met Val Lys Asp Pro Pro Asp  
 145 150 155 160

Val Leu Asp Arg Gln Lys Cys Leu Asp Ala Leu Ala Ala Leu Arg His  
 165 170 175

Ala Lys Trp Phe Gln Ala Arg Ala Asn Gly Leu Gln Ser Cys Val Ile  
 180 185 190

Ile Ile Arg Ile Leu Arg Asp Leu Cys Gln Arg Val Pro Thr Trp Ser  
195 200 205

Asp Phe Pro Ser Trp Ala Met Glu Leu Leu Val Glu Lys Ala Ile Ser  
210 215 220

Ser Ala Ser Ser Pro Gln Ser Pro Gly Asp Ala Leu Arg Arg Val Phe  
225 230 235 240

Glu Cys Ile Ser Ser Gly Ile Ile Leu Lys Gly Ser Pro Gly Leu Leu  
245 250 255

Asp Pro Cys Glu Lys Asp Pro Phe Asp Thr Leu Ala Thr Met Thr Asp  
260 265 270

Gln Gln Arg Glu Asp Ile Thr Ser Ser Ala Gln Phe Ala Leu Arg Leu  
275 280 285

Leu Ala Phe Arg Gln Ile His Lys Val Leu Gly Met Asp Pro Leu Pro  
290 295 300

Gln Met Ser Gln Arg Phe Asn Ile His Asn Asn Arg Lys Arg Arg Arg  
305 310 315 320

Asp Ser Asp Gly Val Asp Gly Phe Glu Ala Glu Gly Lys Lys Asp Lys  
325 330 335

Lys Asp Tyr Asp Asn Phe  
340

<210> 1210  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 1210  
Met Glu Arg His Pro Lys Lys Lys Met Cys Ser Asp  
1 5 10

<210> 1211  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 1211  
Gly Glu Asn Ser Ser Ser Asp Phe Phe Pro Leu Phe Leu Phe Tyr Phe  
1 5 10 15

Leu Val Ala Leu Ala Ser Pro Pro Ile Phe Val Ser Phe Ile Asn  
20 25 30

<210> 1212  
<211> 24  
<212> PRT

<213> Homo sapiens

<400> 1212

Met Gly Ser Gln His Ser Ala Ala Ala Arg Pro Ser Ser Cys Arg Arg  
1 5 10 15

Lys Gln Glu Asp Asp Arg Asp Gly  
20

<210> 1213

<211> 30

<212> PRT

<213> Homo sapiens

<400> 1213

Leu Leu Ala Glu Arg Glu Gln Glu Glu Ala Ile Ala Gln Phe Pro Tyr  
1 5 10 15

Val Glu Phe Thr Gly Arg Asp Ser Ile Thr Cys Leu Thr Cys  
20 25 30

<210> 1214

<211> 34

<212> PRT

<213> Homo sapiens

<400> 1214

Gln Gly Thr Gly Tyr Ile Pro Thr Glu Gln Val Asn Glu Leu Val Ala  
1 5 10 15

Leu Ile Pro His Ser Asp Gln Arg Leu Arg Pro Gln Arg Thr Lys Gln  
20 25 30

Tyr Val

<210> 1215

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1215

Ala Arg Leu Asn Val Gly Arg Glu Ser Leu Lys Arg Glu Met Leu Lys  
1 5 10 15

Ser Gln Gly Val Lys Val Ser Glu Ser Pro Met Gly Ala Arg His Ser  
20 25 30

Ser Trp Pro Glu Gly Ala Ala Phe Cys Lys Lys Val Gln Gly Ala Gln  
35 40 45

Met Gln Phe Pro Pro Arg Arg  
50 55



<210> 1216  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 1216  
 Ala Arg Leu Asn Val Gly Arg Glu Ser Leu Lys Arg Glu Met Leu  
   1                  5                  10                  15

<210> 1217  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1217  
 Leu Lys Ser Gln Gly Val Lys Val Ser Glu Ser Pro Met Gly Ala Arg  
   1                  5                  10                  15

His Ser Ser Trp  
                   20

<210> 1218  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 1218  
 Ala Phe Cys Lys Lys Val Gln Gly Ala Gln Met Gln Phe Pro Pro Arg  
   1                  5                  10                  15

Arg

<210> 1219  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 1219  
 Ala Phe Cys Lys Lys Val Gln Gly Ala Gln Met Gln Phe Pro Pro Arg  
   1                  5                  10                  15

Arg

<210> 1220  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 1220  
 Asn Phe Phe Phe Val Cys Leu Phe Lys Ser Ser Leu Arg Leu Val Asn  
   1                  5                  10                  15

Ser Ser Tyr Thr Pro Ile Leu Cys Val Leu  
                   20                  25

<210> 1221

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1221

Val Gln Val Leu Glu Gln Leu Thr Asn Asn Ala Val Ala Glu Ser Arg  
       1                  5                  10                  15

Phe Asn Asp Ala Ala Tyr Tyr Tyr Trp Met Leu Ser Met Gln Cys Leu  
                   20                  25                  30

Asp Ile Ala Gln Asp  
                   35

<210> 1222

<211> 34

<212> PRT

<213> Homo sapiens

<400> 1222

Pro Ala Gln Lys Asp Thr Met Leu Gly Lys Phe Tyr His Phe Gln Arg  
       1                  5                  10                  15

Leu Ala Glu Leu Tyr His Gly Tyr His Ala Ile His Arg His Thr Glu  
                   20                  25                  30

Asp Pro

<210> 1223

<211> 27

<212> PRT

<213> Homo sapiens

<400> 1223

Leu Ala Lys Gln Ser Lys Ala Leu Gly Ala Tyr Arg Leu Ala Arg His  
       1                  5                  10                  15

Ala Tyr Asp Lys Leu Arg Gly Leu Tyr Ile Pro  
                   20                  25

<210> 1224

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1224

Ala Arg Phe Gln Lys Ser Ile Glu Leu Gly Thr Leu Thr Ile Arg Ala  
       1                  5                  10                  15

Lys Pro Phe His Asp Ser Glu Glu Leu Val Pro Leu Cys Tyr Arg Cys  
                   20                                  25                                  30

Ser Thr Asn Asn  
                   35

<210> 1225

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1225

Pro Leu Leu Asn Asn Leu Gly Asn Val Cys Ile Asn Cys Arg Gln Pro  
   1                                  5                                  10                                  15

Phe Ile Phe Ser Ala Ser Ser Tyr Asp Val Leu His Leu Val Glu Phe  
                   20                                  25                                  30

Tyr Leu Glu Glu Gly Ile Thr Asp Glu Glu Ala Ile Ser Leu Ile Asp  
                   35                                  40                                  45

Leu Glu Val Leu Arg Pro Lys Arg Asp Asp Arg Gln Leu Glu Ile Cys  
                   50                                  55                                  60

Lys Gln Gln Leu Pro Asp Ser Cys Gly  
   65                                  70

<210> 1226

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1226

Met Pro Tyr Ala Gln Trp Leu Ala Glu Asn Asp Arg Phe Glu Glu Ala  
   1                                  5                                  10                                  15

Gln Lys Ala Phe His Lys Ala Gly Arg Gln Arg Glu Ala  
                   20                                  25

<210> 1227

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1227

Phe Ser Val His Arg Pro Glu Thr Leu Phe Asn Ile Ser Arg Phe Leu  
   1                                  5                                  10                                  15

Leu His Ser Leu Pro Lys Asp Thr Pro Ser Gly Ile Ser Lys Val Lys  
                   20                                  25                                  30

Ile Leu Phe Thr  
                   35